



EOG Resources, Inc.
1540 Belco Drive
Big Piney, WY 83113-0250
P.O. Box 250
Big Piney, WY 83113-0250
(307) 276-3331

October 27, 2005

Bureau of Land Management
Vernal Field Office
170 South 500 East
Vernal, Utah 84078

RE: APD - Submittals

To Whom It May Concern:

Attached please find Applications for Permit to Drill for the following wells:

Nutters Canyon	1-2 ✓
Road Hollow	1-35
Quitchampau	1-15
Gilsonite	1-20

If you require additional information, please contact me at (307) 276-4842.

Sincerely,


Kaylene Gardner
Regulatory Assistant

krq

CC: Denver
file

RECEIVED
OCT 31 2005

DIV. OF OIL, GAS & MINING


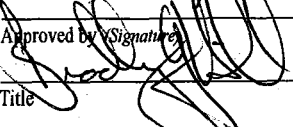
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-78242
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator EOG RESOURCES, INC.		7. If Unit or CA Agreement, Name and No. NA
3a. Address 600 17th STREET, SUITE 1100N DENVER, CO 80202		8. Lease Name and Well No. NUTTERS CANYON 1-2
3b. Phone No. (include area code) 307-276-4842		9. API Well No. 43-013-32942
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 579' FNL, 669' FWL (NW/NW) 549458X At proposed prod. zone SAME AS ABOVE 4417452Y 110.42139		10. Field and Pool, or Exploratory EXPLORATORY Wildcat
11. Sec., T. R. M. or Blk. and Survey or Area SEC. 2, T7S, R5W, U.S.B.&M.		12. County or Parish DUCHESNE
13. State UT		
14. Distance in miles and direction from nearest town or post office* 36.2 MILES SOUTHWEST OF MYTON, UTAH	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) LEASE/DRLG UNIT 579 FT/579 FT	16. No. of acres in lease 2,376
17. Spacing Unit dedicated to this well 40 ACRES	18. Distance from proposed location* to nearest well, drilling, completed, approved for, on this lease, ft. SEE TOPO MAP "C"	19. Proposed Depth 13,400 FT
20. BLM/BIA Bond No. on file NM-2308	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 8553.6 FT GRADED GROUND	22. Approximate date work will start* 08/01/2006
23. Estimated duration 45 DAYS	24. Attachments	

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature 	Name (Printed/Typed) KAYLENE GARDNER	Date 10/27/2005
Title REGULATORY ASSISTANT		
Approved by Signature 	Name (Printed/Typed) BRADLEY G. HILL	Date 11-01-05
Title ENVIRONMENTAL SCIENTIST III		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

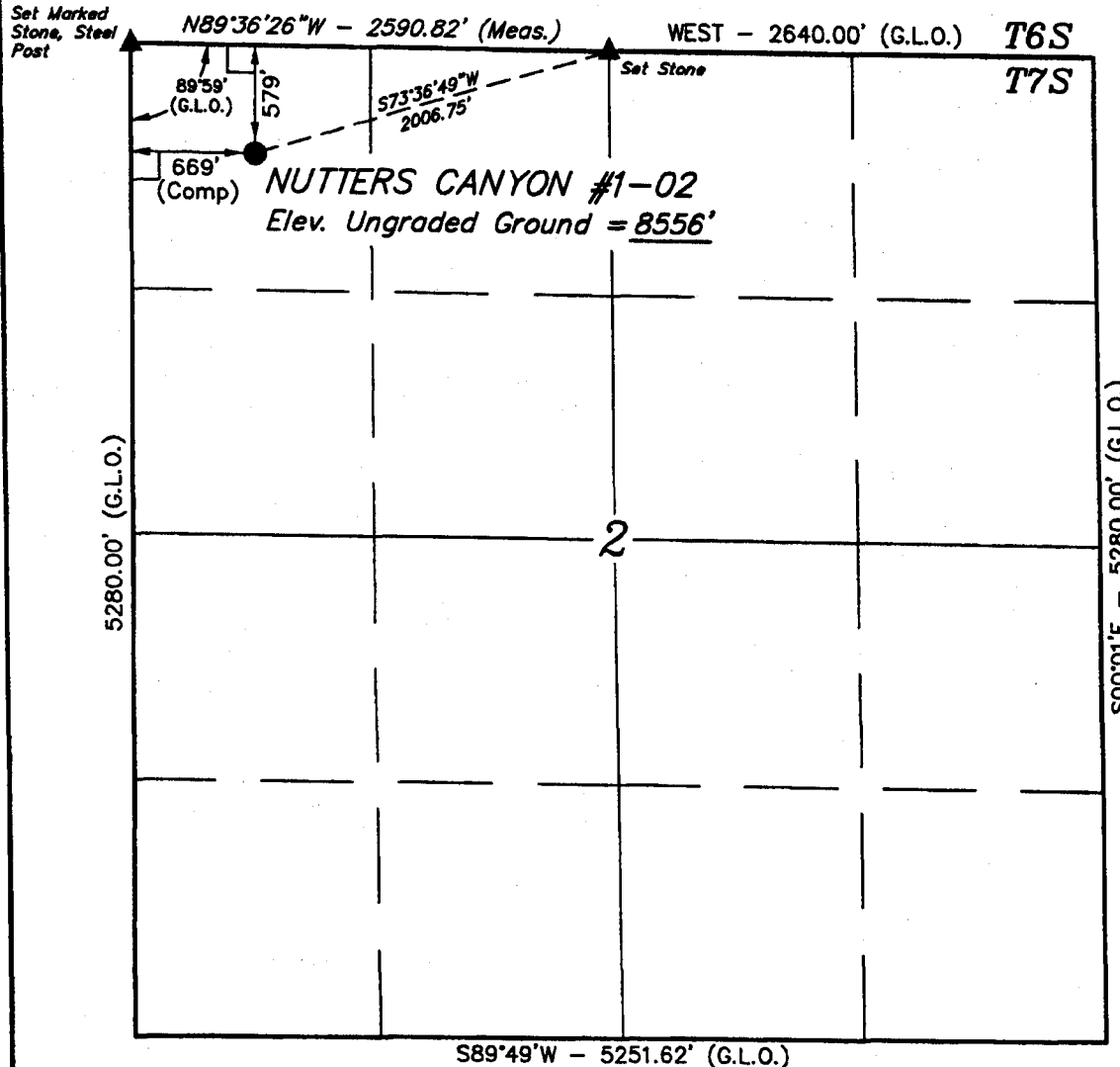
Federal Approval of this
Action is Necessary

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OCT 31 2005

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

T7S, R5W, U.S.B.&M.



BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(AUTONOMOUS NAD 83)

LATITUDE = 39°54'27.63" (39.907675)

LONGITUDE = 110°25'19.63" (110.422119)

(AUTONOMOUS NAD 27)

LATITUDE = 39°54'27.76" (39.907711)

LONGITUDE = 110°25'17.07" (110.421408)

LEGEND:

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

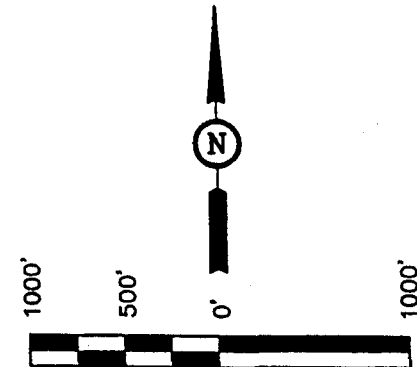
▲ = SECTION CORNERS LOCATED.

EOG RESOURCES, INC.

Well location, NUTTERS CANYON #1-02, located as shown in the NW 1/4 NW 1/4 of Section 2, T7S, R5W, U.S.B.&M. Duchesne County, Utah.

BASIS OF ELEVATION

BOUNDARY (1966) TRIANGULATION STATION LOCATED IN THE SW 1/4 OF SECTION 10, T7S, R5W, U.S.B.&M. TAKEN FROM THE ANTHRO MOUNTAIN, QUADRANGLE, UTAH, DUCHESNE COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 9011 FEET.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161349
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-6-05	DATE DRAWN: 5-27-05
PARTY J.F. D.L. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE EOG RESOURCES, INC.	

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	DEPTH (KB)	OBJECTIVE
Green River	320'	
Wasatch	4,320'	
Dark Canyon	8,984'	
KMV Price River	9,366'	
KMV Price River Middle	10,113'	
Bluecastle	10,683'	
KMV Price River Lower	11,106'	GAS
Pressure Top	11,107'	
KMV Castlegate	11,583'	GAS
KMV Blackhawk	11,970'	GAS
Sunnyside	12,473'	GAS
Kenilworth	12,799'	GAS
Aberdeen	12,983'	GAS

EST. TD: 13,400' or 200' ± below Aberdeen top

Anticipated BHP 7600 PSI

Fresh water zones may exist anywhere in the upper 4000' of the well. All such zones will be isolated by cement to surface.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 11", 5000 PSI BOPE

BOP Schematic diagrams attached.

Intermediate Hole:

13 5/8" 5000 psi annular or

13 5/8" rotating head to be used as a diverter

4. CASING PROGRAM:

HOLE	SIZE	INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	CONN	RATINGS		
								COLL. PSI	BURST PSI	TENS PSI
Surface:	17 1/2"	0' - 250'± KB	250' ±	13 3/8"	48.0 #	H-40	ST&C	740 PSI	1730 PSI	322,000#
Intermediate	12 1/4"	250' - 3400'± KB	3400' ±	9 5/8"	36.0#	J-55	ST&C	2020 PSI	3570 PSI	394,000#
Production:	7 7/8"	3400' – TD ± KB	13,400' ±	4 1/2"	11.6 #	HC P-110	LT&C	8650 PSI	10,690 PSI	279,000#

Note: 12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 3400' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0-250' Below GL):

Guide Shoe

Wooden wiper plug

Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

Intermediate Hole Procedure (250'-3400'):

Guide Shoe

Insert Float Collar (PDC drillable)

Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface.

Production Hole Procedure (3400'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above top of shallowest potentially-productive zone. Thread lock FS, top and bottom of FC, and top of 2nd joint.

6. MUD PROGRAM

Surface Hole Procedure (0-250' below GL):

Air/air mist or aerated water.

Intermediate Hole Procedure (250'-3400'):

Water (circulate through reserve pit) with Gel/LCM sweeps.

Production Hole Procedure (3400'-TD):

3400'- 9'000': Reserve pit water. Circulate through reserve pit with Gel/LCM and PHPA sweeps as needed.

9000'-TD: Weighted LSND, 9-11 PPG, 9 – 10 pH, less than 20 cc's water loss. Run LCM sweeps periodically to seal off loss zones or more often as hole dictates. Expect increasing gas shows requiring heavier mud weights from the top of the Price River onward. Treat CO2 contamination with DESCO CF if mud properties dictate.

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

While drilling surface hole, EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length.

To reduce location excavation, the blooie line will be 75' in length.

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

8. EVALUATION PROGRAM:

Logs: Mud log from base of surface casing to TD.
Schlumberger Platform Express with Di-pole Sonic from TD to base of surface casing in 1 run. Rotary sidewall cores as needed and based upon results from first log run.

9. CEMENT PROGRAM:

Surface Hole Procedure (0-250' Below GL)

Lead: 300 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl₂) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

Top Out: Top out with Class 'G' cement with 2% S1 (CaCl₂) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Intermediate Hole Procedure (250'-3,400')

Lead: 260 sx. (50% excess volume) Class 'G' lead cement (coverage from 2400'-250') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79 (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft³/sk., 24.5 gps water.

Tail: 290 sx. (50% excess volume) Class 'G' cement (coverage from 3400'-2400') with 10% D53 (Gypsum), 2% S1 (CaCl₂) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft³/sk., 7.9 gps water.

If openhole logs are run in intermediate hole, cement volumes will be based on openhole log caliper volume plus 10% excess.

Production Hole Procedure (3400' to TD)

Lead: 730 sx Hi-Lift G (coverage from 400' above top productive interval to 3200' (± 200' into intermediate casing)) w/ 12% D20 (Bentonite), 1% D79 (Extender), 0.2% D46 (Antifoamer), 0.2% D167 (Fluid Loss Additive), 0.2 % D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 11.5 ppg, 3.05 cu. ft./sk., 18.65 gps water.

Middle: 300 sx 50:50 Poz:G (coverage from 12000' to 400' above top productive interval) w/ 2% D20 (Bentonite), 0.1% D46 (Antifoamer), 0.15% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.0 ppg, 1.29 cu. ft./sk., 5.9 gps water..

Production Hole Procedure (Continued):

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

Tail: 270 sx 50:50 Poz:G (coverage from TD-12000') w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

Note: Production string cement volumes shown are based on gauge hole +30% excess and assuming a top productive zone at 10,700'. Actual volumes will be based upon open hole caliper log volume plus 5% excess and top of tail cement to 400' above the highest indicated productive interval. Tail cement composition will be adjusted as needed for bottom hole temperature indicated on open hole logging tools.

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (250'-3400')

Potential Problems: Lost circulation throughout the section and minor amounts of gas may be present. Hydrocarbon shows and/or water zones will be monitored for and reported.

PRODUCTION HOLE (3400'-TD)

Potential Problems: Research indicates that mud losses are possible throughout all of the 7-7/8" hole. Sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Electronic/mechanical Mud monitoring equipment (PVT)

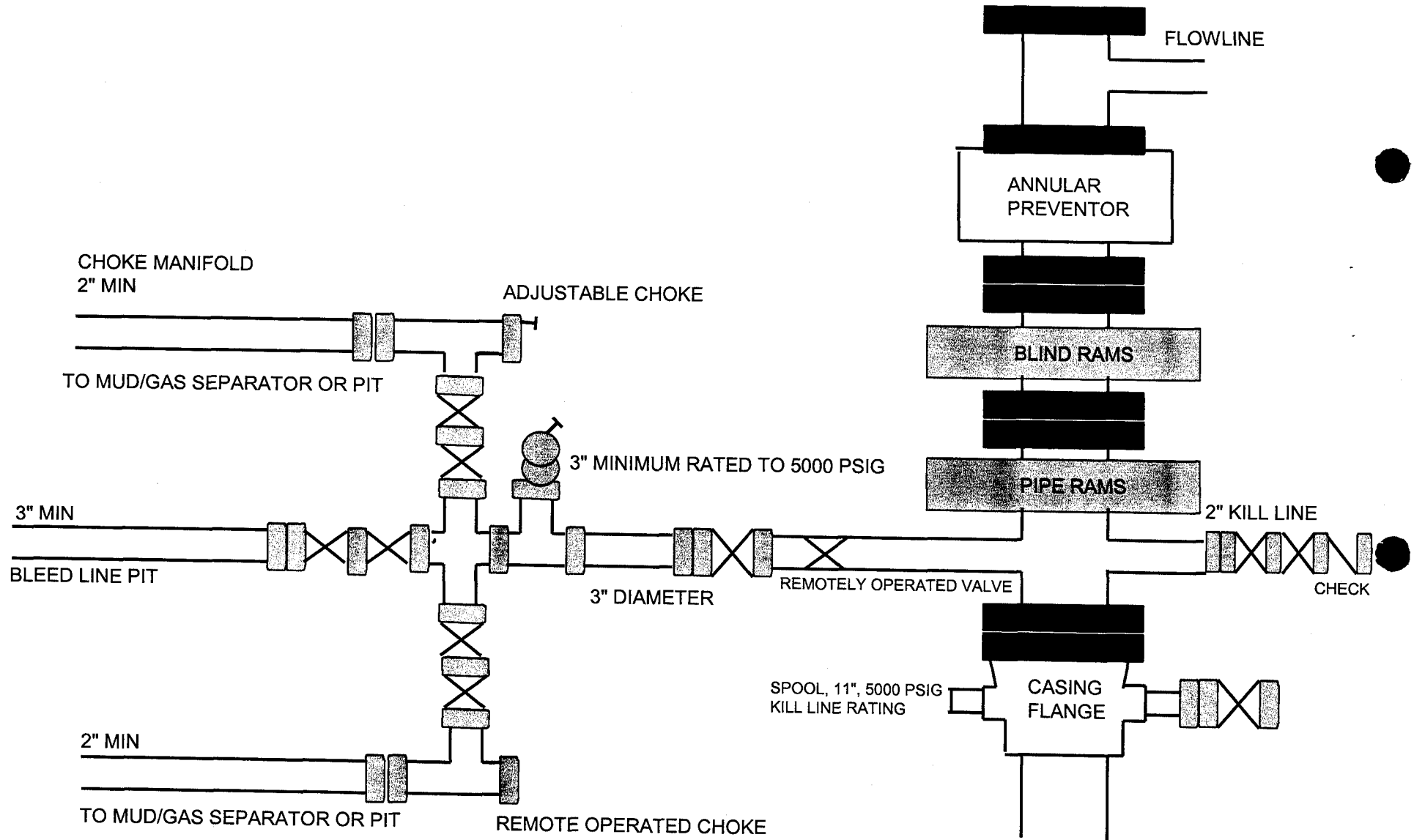
12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

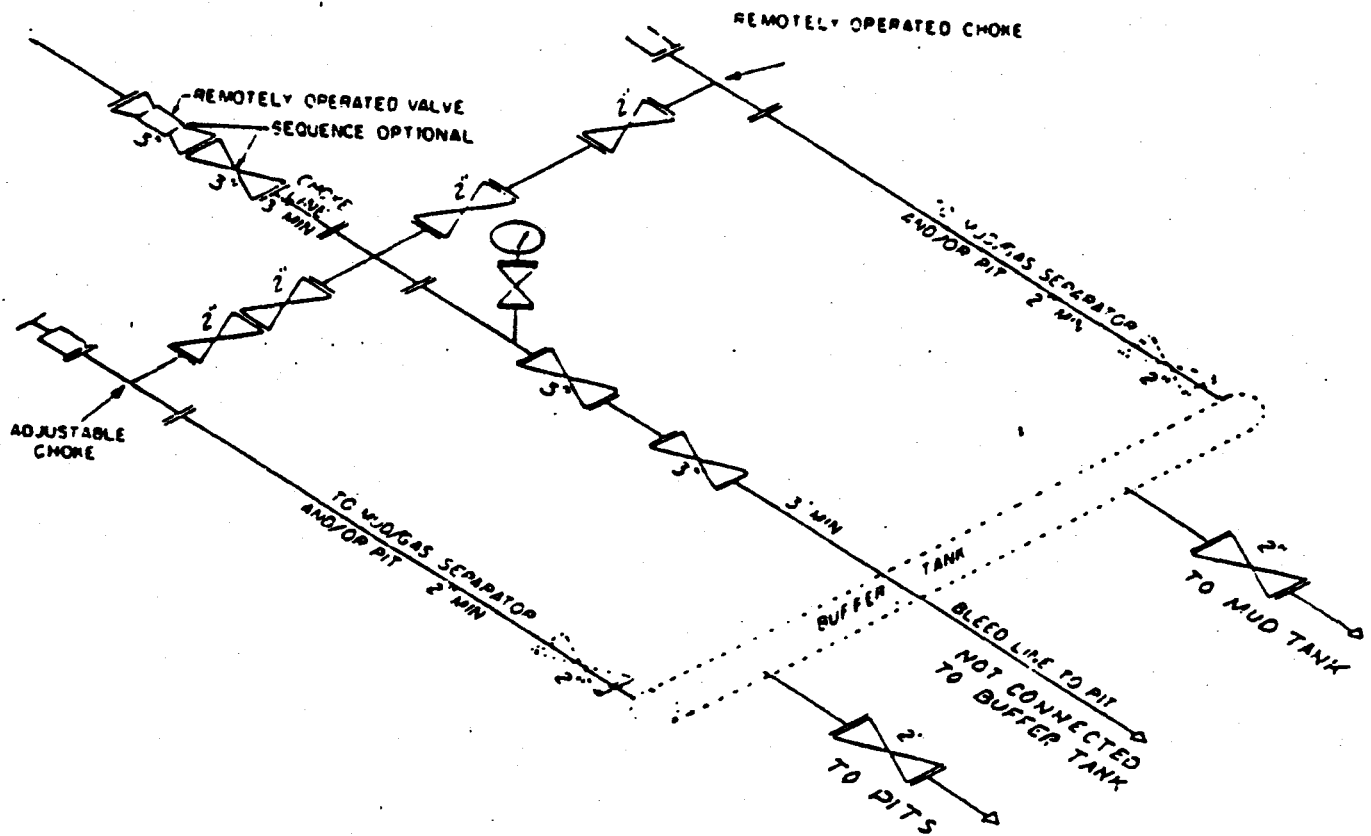
(Attachment: BOP Schematic Diagram)

5000 PSIG BOPE DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 5000 PSIG RATED.
CASING FLANGE IS 11" 5000 PSIG RATED.



CHOKE MANIFOLD



**CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: EOG Resources, Inc.
Well Name & Number: Nutters Canyon 1-2
Lease Number: UTU-78242
Location: 579' FNL & 669' FWL, NW/NW, Sec. 2,
T7S, R5W, U.S.B.&M., Duchesne County, Utah
Surface Ownership: Federal

NOTIFICATION REQUIREMENTS

Location Construction: Forty-eight (48) hours prior to construction of location and access roads.

Location Completion: Prior to moving on the drilling rig.

Spud Notice: At least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing: Twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests: Twenty-four (24) hours prior to running casing and tests.

First Production Notice: Within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

THIRTEEN POINT SURFACE USE PROGRAM

The well pad is approximately 325 feet long with a 246-foot width, containing 1.84 acres more or less. The well access road is approximately 130 feet long with a 30-foot right-of-way, disturbing approximately 0.09 acre. New surface disturbance associated with access road and the well pad is estimated to be approximately 1.93 acres. No pipelines or surface facilities are proposed. See attached plats and TOPO maps.

1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 36.22 miles southwest of Myton, Utah - See attached TOPO Map "A."
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. An existing road approximately 2.7 miles long will connect the ridge road to the northwest of Nutters Canyon to the planned access road. See attached TOPO Map "B."
- E. Approximately 0.7 miles of the existing road may be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. The existing road will be upgraded to the minimum degree needed. Upgrading may include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road; however, because this well is an exploratory well, improvements to the access road will consist of the minimum construction needed for safe travel. Prior to any upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they will be filled in and detours around them avoided.
- F. Existing roads will be maintained and repaired as necessary.
- G. Men and equipment will be commuting from the Vernal/Duchesne area. This well is planned to be drilled in the summer of 2006. Drilling and completion would occur over a period of approximately seven weeks.

2. PLANNED ACCESS ROAD

- A. The access road will be approximately 130 feet in length. See attached TOPO Map "B."
- B. The planned access road will have a 30-foot right-of-way (ROW) with an 18-foot running surface. Traveling off the 30-foot ROW will not be allowed.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.

- E. No culverts, bridges, or major cuts and fills will be required.
- F. The access road will be dirt surface. The road will be constructed to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading may include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road will be cleared of any snow cover and allowed to dry completely. Upgrading will not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
- G. No gates, cattleguards, or fences will be required. As operator, EOG Resources, Inc. will be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.
- H. New or reconstructed roads were centerlined-flagged at time of location staking.
- I. Road drainage crossings will be of the typical dry creek drainage crossing type. Crossings will be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor will the drainages be blocked by the roadbed.
- J. Erosion of drainage ditches by run off water will be prevented by diverting water off at frequent intervals by means of cutouts.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

Abandoned wells – 1. See attached TOPO Map “C.”

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. ON WELL PAD

- 1. The proposed location will be constructed on the former location for the plugged and abandoned ACF #1. This location has been reclaimed.
- 2. Permanent production facilities will not be set on location. This well is an exploratory well.
- 3. Gas gathering lines will not be installed.
- 4. Approximately 1.84 acres will be required for the construction of the well pad, approximately 33% of which will use the reclaimed ACF #1 well pad. If the well is determined to be dry, the entire location will be reclaimed according to USFS requirements.

B. OFF WELL PAD: No facilities are planned off the well pad.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from the nearest approved source, possibly from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, Utah (State Water Right #49-1501). Water will be hauled by a licensed trucking company.
- B. If drilling the conductor or surface hole indicates the existence of water bearing zones, EOG Resources will consider drilling a water well on the location to provide a more viable water source. Drilling a water well would reduce truck travel to the well site. No additional disturbance will result from drilling a water well.

6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from federal land.
- C. No mineral materials will be required.

7. METHODS OF HANDLING WASTE DISPOSAL

A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Roosevelt sewage disposal plant or other approved disposal site.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the nearest approved landfill or the Duchesne County Landfill.
- 4. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

B. RESERVE PIT

- 1. Water from drilling fluids and recovered during testing operations will be disposed of by removal and transport to an authorized disposal site.
- 2. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.
- 3. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90-day period, the produced water will be disposed of at an authorized disposal site. The

tank, if used, would be removed from the location as soon as practicable after the water is transported from the location.

4. The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.
5. The reserve pit will be lined with felt and a 12-millimeter plastic liner.

8. ANCILLARY FACILITIES

No airstrips, camps, or other ancillary facilities are planned for this well.

9. WELLSITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on onsite.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.
- D. The approved seed mixture for this location will be as required by the USFS.
- E. The reserve pit will be located on the southwest corner of the location. The flare pit will be located downwind of the prevailing wind direction on the west side of the location, a minimum of 100 feet from the well head. The position of the flare pit will be dictated by rig configuration such that the flare pit is a safe distance from the reserve pit without requiring use of elbows or excessive bends in flare lines.
- F. The stockpiled pit topsoil will be stored separate from the location topsoil northwest of Corner #5. The stockpiled location topsoil will be stored between Corner #6 and an existing 2-track road.
- G. Access to the well pad will be from the south.
- H. FENCING REQUIREMENTS: All pits will be fenced according to the following minimum standards:
 1. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
 2. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.

3. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
5. All wire shall be stretched by using a stretching device before it is attached to the corner posts.
6. The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.
7. Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to USFS specifications. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the USFS, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

10. PLANS FOR RESTORATION OF SURFACE

A. COMPLETED LOCATION

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, and trash not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit will be removed in accordance with CFR 3162.7-1.
3. If a plastic nylon reinforced liner is used, it will be torn and perforated before backfilling of the reserve pit.
4. Interim reclamation will be performed on all areas of the access road and well pad not needed after drilling and completion operations (if performed) are finished.
5. The reserve pit will be recontoured to the approximate natural contours. The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.
6. Rat and mouse holes will be filled and compacted from bottom to top immediately after release of the drilling rig from the location.
7. Topsoil from the berms and/or storage piles will be spread along the road's cut and fill slopes. Drainage ditches or culverts will not be blocked with topsoil and associated organic matter. The topsoil areas will be seeded as stated below. The unused area of the pad will be recontoured and topsoil spread six inches deep. The area on the contour will be ripped one foot deep using ripper teeth set on one-foot centers.

8. All disturbed, unused areas will be seeded using a drill equipped with a depth regulator. All seed will be drilled on the contour. The seed will be planted between one-quarter and one-half inch deep. Where drilling is not possible (i.e., too steep or rocky), the seed will be broadcast and the area raked or chained to cover the seed. If the seed mixture is broadcast, the rate will be doubled. The certified or registered seed mixture and application rates will be obtained from the Authorized Officer.
9. Seeding will be done either in late autumn (September 1 to November 15, before freeze up) after completion or as early as possible the following spring to take advantage of available ground moisture. The seeding shall be repeated until a satisfactory stand, as determined by the Authorized Officer, is obtained. The first evaluation of growth will be made following completion of the first growing season after seeding.
10. If the well is determined to be one capable of successful production, EOG Resources understands that the installation of production facilities would occur only after appropriate review and approval by the USFS and BLM.

B. DRY HOLE/ABANDONED LOCATION: Prior to final abandonment reclamation work, a sundry notice describing the proposed reclamation plan will be submitted to the Authorized Officer for approval.

11. SURFACE OWNERSHIP

Access road: Federal –Ashley National Forest
Location: Federal - Ashley National Forest

12. OTHER INFORMATION

- A. A cultural resources survey was performed by Montgomery Archaeological Consultants and are attached to this APD. A SHPO concurrence letter, dated 9/19/05, was received at the Ashley NF office on 9/28/05.
- B. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:
 - Whether the materials appear eligible for the National Register of Historic Places;
 - The mitigation measures the operator will likely have to undertake before the site can be used.
 - A time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- C. As operator, EOG Resources, Inc. will control noxious weeds along ROWs for roads, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the USFS, or the appropriate County Extension Office. On USFS-administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted using a completion/workover rig.
- E. The Nutters Canyon #1-2 is an exploratory well. As such, temporary production facilities may be installed on the well pad. No permanent production facilities will be constructed until such time that they are needed to produce the well and additional NEPA documentation of such actions is performed and approval granted.

LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

PERMITTING AGENT

Kaylene Gardner
EOG Resources, Inc.
600 17th Street, Suite 1100N
Denver, CO 80202
Telephone: (307) 276-4842

DRILLING OPERATIONS

Donald Presenkowski
EOG Resources, Inc.
P.O. Box 250
Big Piney, WY 83113
Telephone: (307) 276-4865

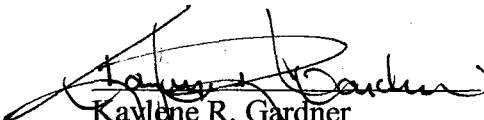
All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. EOG Resources, Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and any necessary ROW grant will be on location during construction of the location and drilling activities.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date October 27, 2005


Kaylene R. Gardner
Regulatory Assistant

**EOG RESOURCES, INC.
NUTTERS CANYON #1-02
SECTION 2, T7S, R5W, U.S.B.&M.**

PROCEED IN A SOUTHWESTERLY DIRECTION FROM MYTON, UTAH APPROXIMATELY 8.6 MILES ALONG U.S. HIGHWAY 40 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 8.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 15.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 130' TO THE PROPOSED LOCATION.

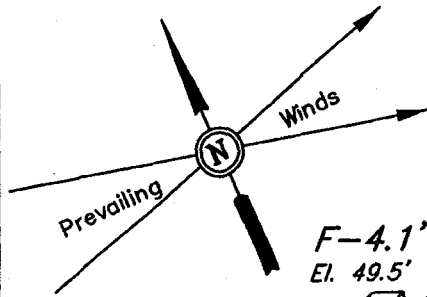
TOTAL DISTANCE FROM MYTON, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 36.2 MILES.

EOG RESOURCES, INC.

LOCATION LAYOUT FOR

NUTTERS CANYON #1-02
SECTION 2, T7S, R5W, U.S.B.&M.

579' FNL 669' FWL



SCALE: 1" = 50'
DATE: 5-31-05
Drawn By: K.G.

F-4.1'
El. 49.5'

F-13.9'
El. 39.7'

Topsoil Stockpile

F-6.4'
El. 47.2'

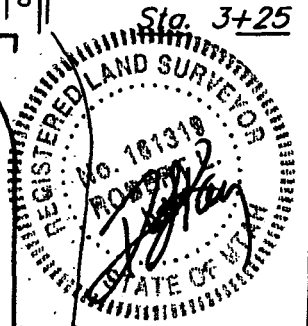
Round Corners
as needed

Approx.
Top of
Cut Slope

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.

Pit Topsoil



Approx.
Toe of
Fill Slope

El. 61.7'
C-20.1'
(btm. pit)

C-3.9'
El. 57.5'

C-1.9'
El. 55.5'

Sta. 1+50

F-3.2'
El. 50.4'

Reserve Pit Backfill
& Spoils Stockpile

FLARE PIT
20' WIDE BENCH
46'

29'

75'

14.7'

15' WIDE BENCH

RESERVE PITS
(12' Deep)

SLOPE = 1-1/2 : 1

TRASH

150'

20' WIDE BENCH

El. 65.4'

C-23.8'
(btm. pit)

C-4.1'
El. 57.7'

C-2.8'
El. 56.4'

Sta. 0+00

F-6.6'
El. 47.0'

NOTES:

Elev. Ungraded Ground At Loc. Stake = 8555.5'

FINISHED GRADE ELEV. AT LOC. STAKE = 8553.6'

Proposed Access
Road

FIGURE #1

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

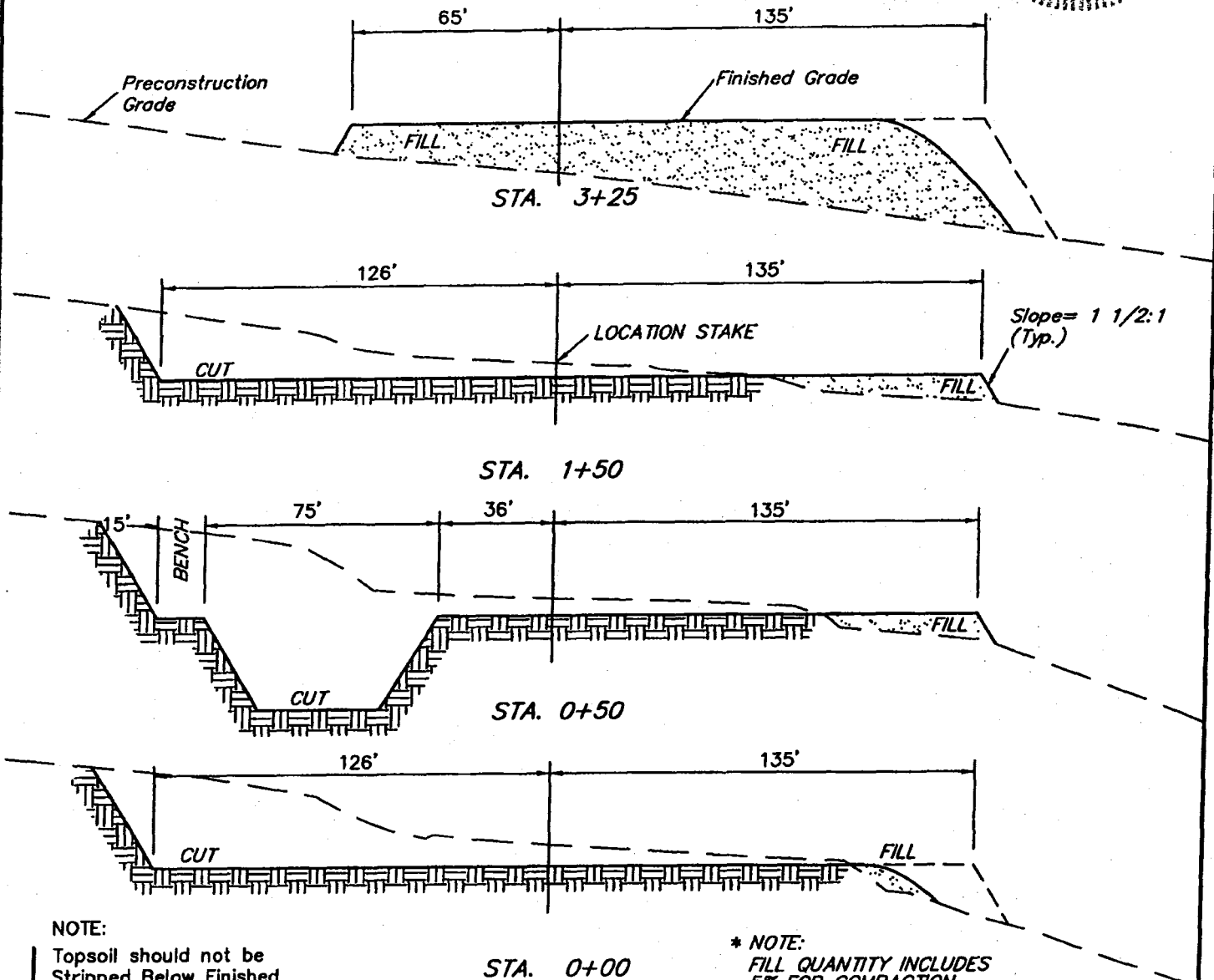
EOG RESOURCES, INC.

FIGURE #2

TYPICAL CROSS SECTIONS FOR NUTTERS CANYON #1-02 SECTION 2, T7S, R5W, U.S.B.&M. 579' FNL 669' FWL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 5-31-05
Drawn By: K.G.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,730 Cu. Yds.
Remaining Location = 9,630 Cu. Yds.

TOTAL CUT = 11,360 CU.YDS.
FILL = 7,970 CU.YDS.

EXCESS MATERIAL = 3,390 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,390 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
86 So. 200 East • Vernal, Utah 84078 • (435) 788-1017

EOG RESOURCES, INC.
NUTTERS CANYON #1-02
 LOCATED IN UINTAH COUNTY, UTAH
 SECTION 2, T7S, R5W, U.S.B.&M.

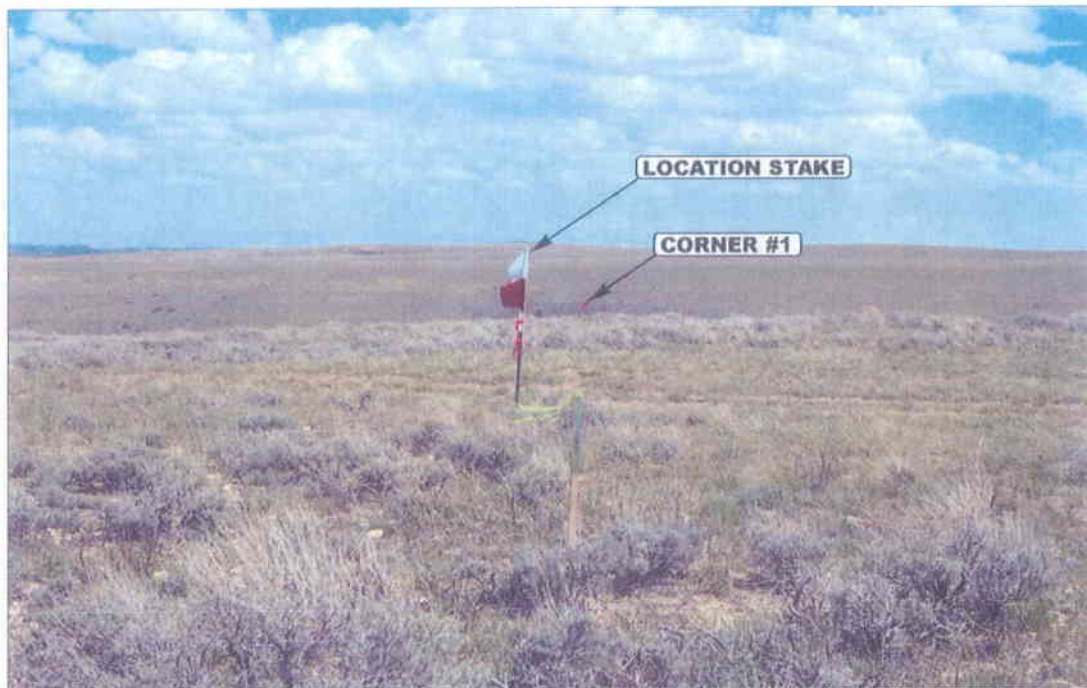


PHOTO: VIEW FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: SOUTHEASTERLY

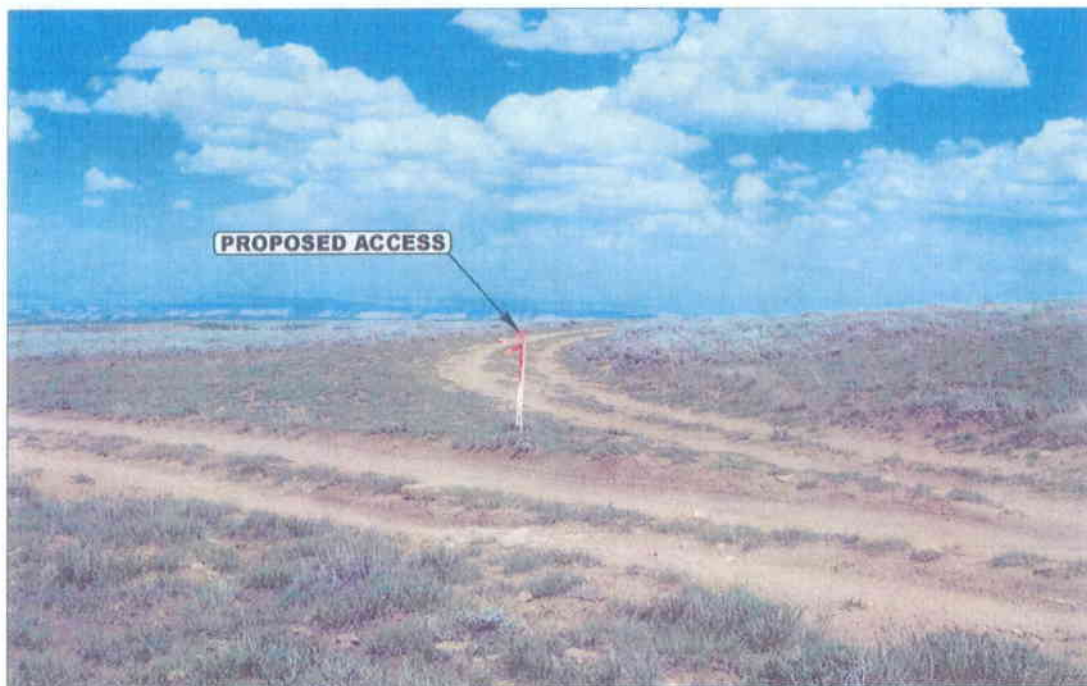


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

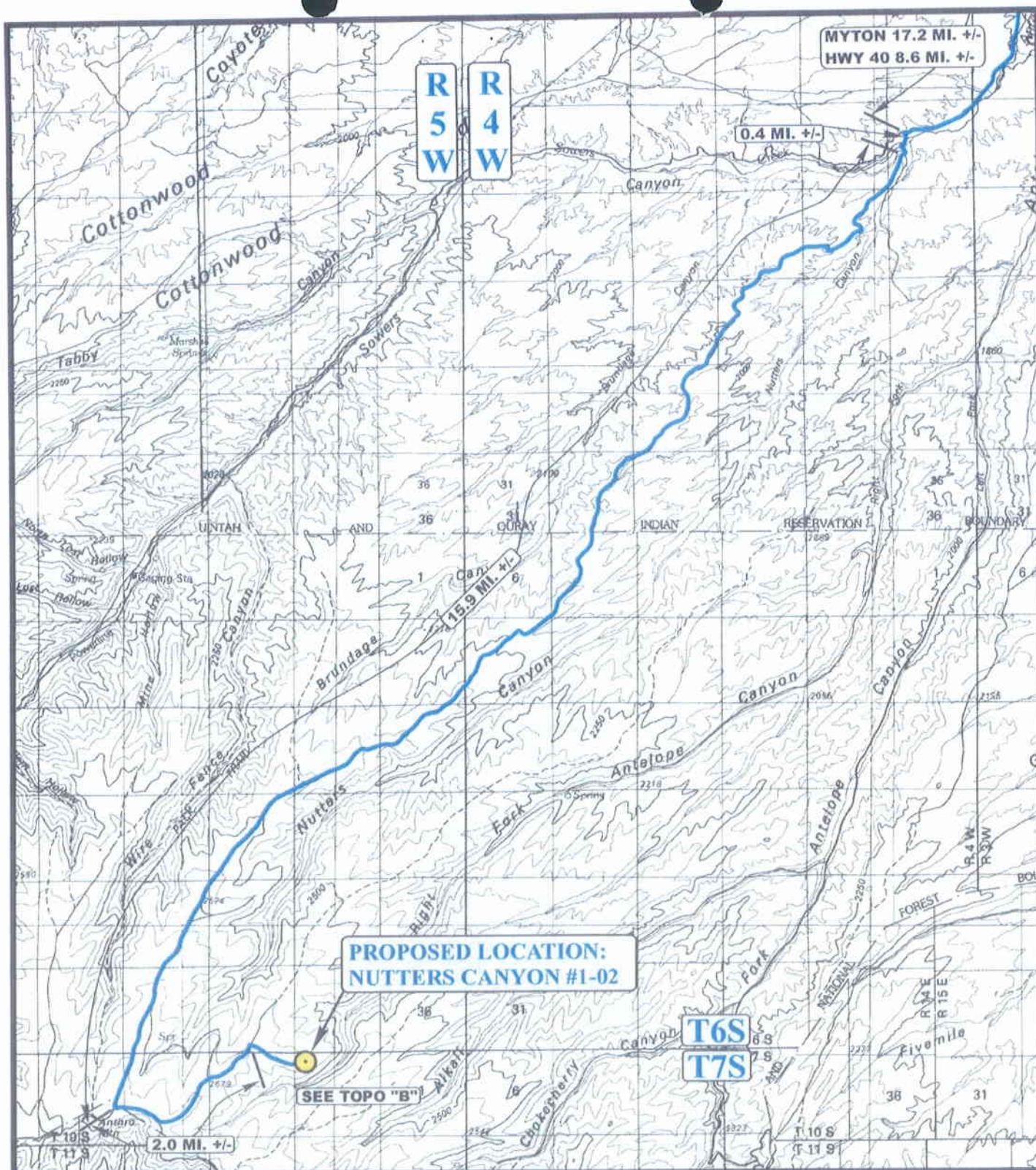
CAMERA ANGLE: SOUTHERLY



- Since 1964 -

Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS		05	26	05	PHOTO
		MONTH	DAY	YEAR	
TAKEN BY: J.F.	DRAWN BY: S.L.	REVISED: 00-00-00			



LEGEND:

● PROPOSED LOCATION

EOG RESOURCES, INC.

NUTTERS CANYON #1-02
SECTION 2, T7S, R5W, U.S.B.&M.
579' FNL 669' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

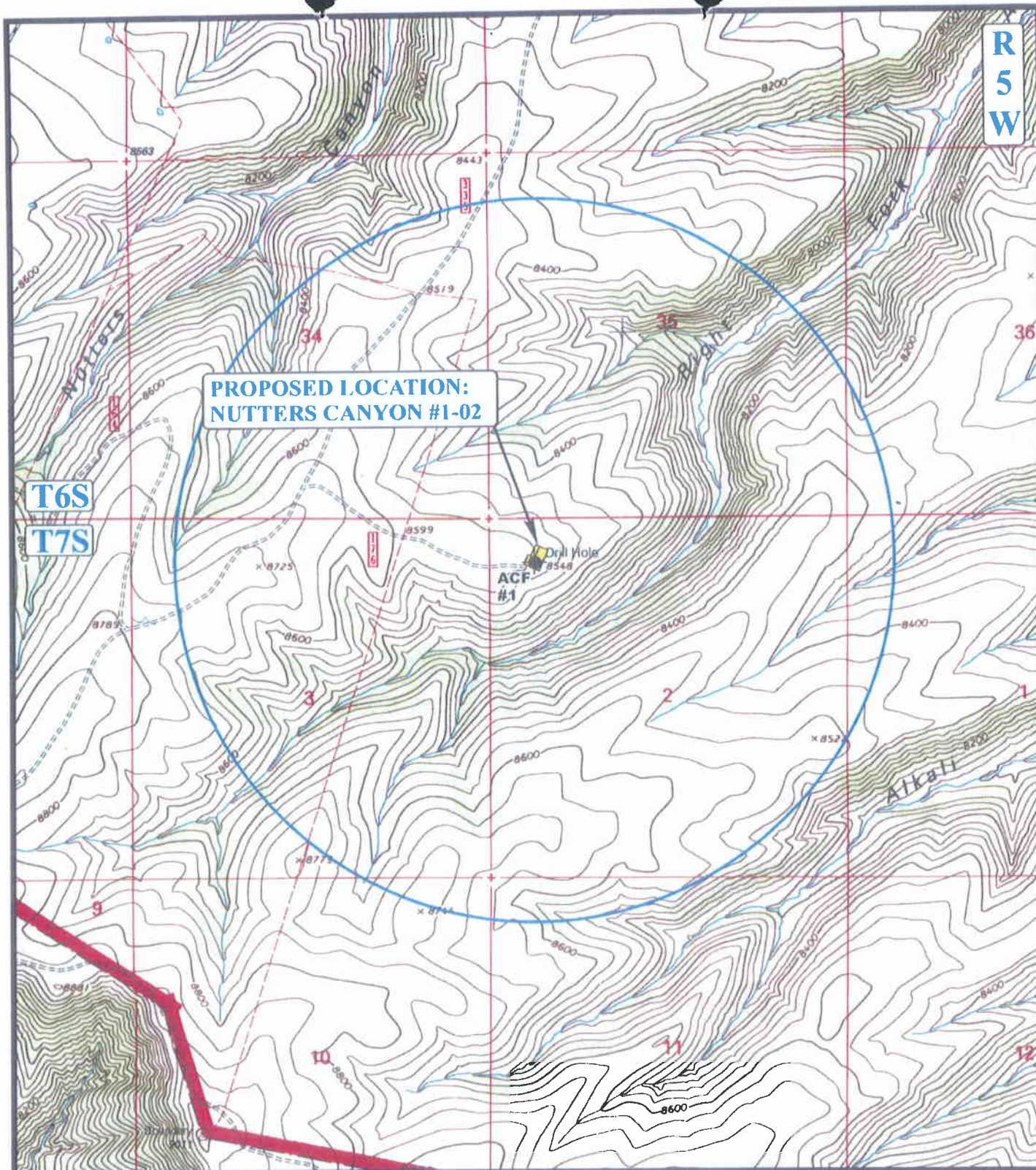


TOPOGRAPHIC
MAP

05 26 05
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: S.L. REVISED: 00-00-00

A
TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

EOG RESOURCES, INC.

**NUTTERS CANYON #1-02
SECTION 2, T7S, R5W, U.S.B.&M.
579' FNL 669' FWL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

05 26 05
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: S.L. REVISED: 00-00-00



WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/31/2005

API NO. ASSIGNED: 43-013-32942

WELL NAME: NUTTERS CYN 1-2

OPERATOR: EOG RESOURCES INC (N9550)

CONTACT: KAYLENE GARDNER

PHONE NUMBER: 307-276-4842

PROPOSED LOCATION:

NWNW 02 070S 050W

SURFACE: 0579 FNL 0669 FWL

BOTTOM: 0579 FNL 0669 FWL

DUCHESNE

WILDCAT (1)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-78242

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: BLKHK

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 39.90760

LONGITUDE: -110.4214

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. NM-2308)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 49-1501)
☒ RDCC Review (Y/N)
(Date: _____)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

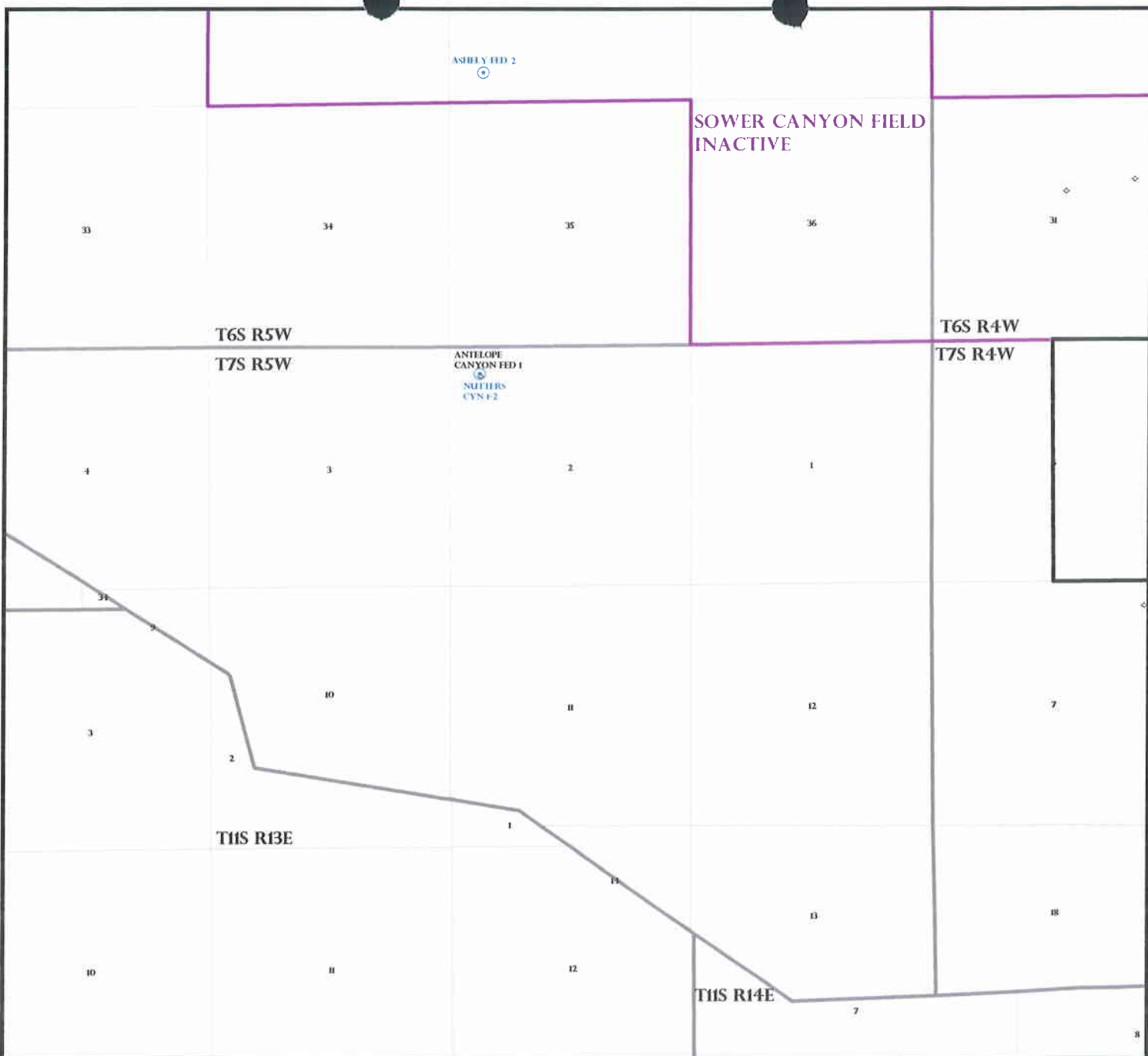
LOCATION AND SITING:

 R649-2-3.
Unit _____
☒ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
 R649-3-3. Exception
 Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
 R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: 1- Federal Approval

2- Spacing Strip



OPERATOR: EOG RESOURCES INC (N1095)

SEC: 2 T. 7S R. 5W

FIELD: WILDCAT (001)

COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

Field Status

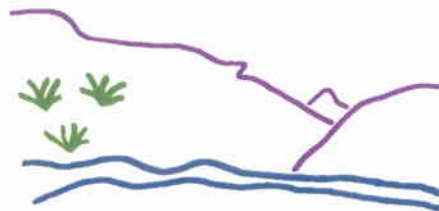
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY
DATE: 1-NOVEMBER-2005



State of Utah

Department of Natural Resources

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

November 1, 2005

EOG Resources, Inc.
600 17th St., Ste. 1100N
Denver, CO 80202

Re: Nutters Canyon 1-2 Well, 579' FNL, 669' FWL, NW NW, Sec. 2, T. 7 South,
R. 5 West, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32942.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office

Operator: EOG Resources, Inc.
Well Name & Number Nutters Canyon 1-2
API Number: 43-013-32942
Lease: UTU-78242

Location: NW NW Sec. 2 T. 7 South R. 5 West

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.



EOG Resources, Inc.
211 South 1000 East
Vernal, UT 84078

P.O. Box 1815
Vernal, UT 84078
(435) 789-0790

43-643-32942

March 24, 2006

Mr. Michael Lee
Bureau of Land Management
1770 South 500 East
Vernal, Ut 84078

**RE: Nutters Canyon 1-2
579 FNL 669 FWL
NW/NW, Section 2, T7S, R5W
Duchesne County, UT**

Dear Mr. Lee:

Attached please find an amended Eight Point Drilling Plan for the referenced pending Application to Drill.

Sincerely,

A handwritten signature in black ink, appearing to read "Kaylene R. Gardner".

Kaylene R. Gardner
Regulatory Assistant

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

APR 05 2006

DIV. OF OIL, GAS & MINING

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	DEPTH (KB)	OBJECTIVE
Green River	320'	
Wasatch	4,320'	
Dark Canyon	8,984'	
KMV Price River	9,366'	
KMV Price River Middle	10,113'	
Bluecastle	10,683'	
KMV Price River Lower	11,106'	GAS
Pressure Top	11,107'	
KMV Castlegate	11,583'	GAS
KMV Blackhawk	11,970'	GAS
Sunnyside	12,473'	GAS
Kenilworth	12,799'	GAS
Aberdeen	12,983'	GAS

EST. TD: 13,400' or 400' ± below Aberdeen top

Anticipated BHP 7600 PSI

Fresh water zones may exist anywhere in the upper 4000' of the well. All such zones will be isolated by cement to surface.

3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 11", 5000 PSI BOPE
 BOP Schematic diagrams attached.

Intermediate Hole:

13 5/8" 5000 psi annular or
 13 5/8" rotating head to be used as a diverter

4. CASING PROGRAM:

HOLE	SIZE	INTERVAL	LENGTH	SIZE	WEIGHT	GRADE	CONN	RATINGS		
								COLL. PSI	BURST PSI	TENS PSI
Surface:	17 1/2"	0' - 250' ± KB	250' ±	13 3/8"	48.0 #	H-40	ST&C	740 PSI	1730 PSI	322,000#
Intermediate	12 1/4"	250' - 3400' ± KB	3400' ±	9 5/8"	36.0#	J-55	ST&C	2020 PSI	3570 PSI	394,000#
Production:	7 7/8"	3400' – TD ± KB	13,400' ±	4 1/2"	13.5 #	P-110	LT&C	10670 PSI	12410 PSI	338,000#

Note: 12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 3400' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

5. Float Equipment:

Surface Hole Procedure (0-250' Below GL):

Guide Shoe

Wooden wiper plug

Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

Intermediate Hole Procedure (250'-3400'):

Guide Shoe

Insert Float Collar (PDC drillable)

Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface.

Production Hole Procedure (3400'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above top of shallowest potentially-productive zone. Thread lock FS, top and bottom of FC, and top of 2nd joint.

6. MUD PROGRAM

Surface Hole Procedure (0-250' below GL):

Air/air mist or aerated water.

Intermediate Hole Procedure (250'-3400'):

Water (circulate through reserve pit) with Gel/LCM sweeps.

Production Hole Procedure (3400'-TD):

3400'- 9'000': Reserve pit water. Circulate through reserve pit with Gel/LCM and PHPA sweeps as needed.

9000'-TD: Weighted LSND, 9-11 PPG, 9 – 10 pH, less than 20 cc's water loss. Run LCM sweeps periodically to seal off loss zones or more often as hole dictates. Expect increasing gas shows requiring heavier mud weights from the top of the Price River onward. Treat CO2 contamination with DESCO CF if mud properties dictate.

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

While drilling surface hole, EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length.

To reduce location excavation, the blooie line will be 75' in length.

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

8. EVALUATION PROGRAM:

Logs: Mud log from base of surface casing to TD.
Schlumberger Platform Express with Di-pole Sonic from TD to base of surface casing in 1 run. Rotary sidewall cores as needed and based upon results from first log run.

9. CEMENT PROGRAM:

Surface Hole Procedure (0-250' Below GL)

Lead: 300 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl₂) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

Top Out: Top out with Class 'G' cement with 2% S1 (CaCl₂) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Intermediate Hole Procedure (250'-3,400')

Lead: 260 sx. (50% excess volume) Class 'G' lead cement (coverage from 2400'-250') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft³/sk., 24.5 gps water.

Tail: 290 sx. (50% excess volume) Class 'G' cement (coverage from 3400'-2400') with 10% D53 (Gypsum), 2% S1 (CaCl₂) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft³/sk., 7.9 gps water.

If openhole logs are run in intermediate hole, cement volumes will be based on openhole log caliper volume plus 10% excess.

Production Hole Procedure (3400' to TD)

Lead: 730 sx Hi-Lift G (coverage from 400' above top productive interval to 3200' (± 200' into intermediate casing)) w/ 12% D20 (Bentonite), 1% D79 (Extender), 0.2% D46 (Antifoamer), 0.2% D167 (Fluid Loss Additive), 0.2 % D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 11.5 ppg, 3.05 cu. ft./sk., 18.65 gps water..

Middle: 300 sx 50:50 Poz:G (coverage from 12000' to 400' above top productive interval) w/ 2% D20 (Bentonite), 0.1% D46 (Antifoamer), 0.15% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.0 ppg, 1.29 cu. ft./sk., 5.9 gps water..

EIGHT POINT PLAN
NUTTERS CANYON 1-2
NW/NW, SEC. 2, T7S, R5W
DUCHESNE COUNTY, UTAH

Production Hole Procedure (Continued):

Tail: 270 sx 50:50 Poz:G (coverage from TD-12000') w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

Note: Production string cement volumes shown are based on gauge hole +30% excess and assuming a top productive zone at 10,700'. Actual volumes will be based upon open hole caliper log volume plus 5% excess and top of tail cement to 400' above the highest indicated productive interval. Tail cement composition will be adjusted as needed for bottom hole temperature indicated on open hole logging tools.

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (250'-3400')

Potential Problems: Lost circulation throughout the section and minor amounts of gas may be present. Hydrocarbon shows and/or water zones will be monitored for and reported.

PRODUCTION HOLE (3400'-TD)

Potential Problems: Research indicates that mud losses are possible throughout all of the 7-7/8" hole. Sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Electronic/mechanical Mud monitoring equipment (PVT)

12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 78242
2. NAME OF OPERATOR: EOG RESOURCES, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (435) 789-0790		8. WELL NAME and NUMBER: NUTTERS CANYON 1-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 579 FNL 669 FWL 39.907711 LAT 110.421408 LON		9. API NUMBER: 43-013-32942
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 7S 5W S.L.B. & M		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

COUNTY: DUCHESNE

STATE: UTAH

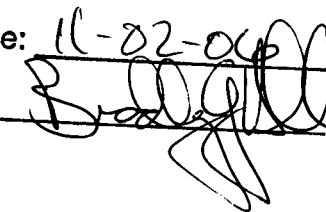
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>APD EXTENSION REQUEST</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 11-02-06
By: 

COPY SENT TO OPERATOR
Date: 11-3-06
Initials: RM

NAME (PLEASE PRINT) Kaylene R. Gardner TITLE Sr. Regulatory Assistant
SIGNATURE  DATE 10/31/2006

(This space for State use only)

RECEIVED

NOV 01 2006

DIV. OF OIL, GAS & MINING

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-32942
Well Name: NUTTERS CANYON 1-2
Location: 579 FNL 669 FWL (NWNW), SECTION 2, T7S, R5W S.L.B.&M
Company Permit Issued to: EOG RESOURCES, INC.
Date Original Permit Issued: 11/1/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

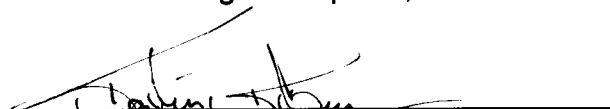
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

10/31/2006

Date

Title: SR. REGULATORY ASSISTANT

Representing: EOG RESOURCES, INC.

RECEIVED

NOV 01 2006

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 78242
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: Nutters Canyon 1-2	
2. NAME OF OPERATOR: EOG RESOURCES, INC.	9. API NUMBER: 43-013-32942	
3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 824-5526	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 579 FNL 669 FWL 39.907675 LAT 110.422119 LON COUNTY: Duchesne QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 7S 5W S.L.B. & M STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: APD EXTENSION REQUEST

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 10-10-07
By: [Signature]

10-11-07
initials: RM

NAME (PLEASE PRINT) Mary A. Maestas	TITLE Regulatory Assistant
SIGNATURE <u>Mary A. Maestas</u>	DATE 10/4/2007

(This space for State use only)

RECEIVED
OCT 10 2007

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-32942
Well Name: NUTTERS CANYON 1-2
Location: 579 FNL 669 FWL (NWNW), SECTION 2, T7S, R5W S.L.B.&M
Company Permit Issued to: EOG RESOURCES, INC.
Date Original Permit Issued: 11/1/2005

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☐

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒

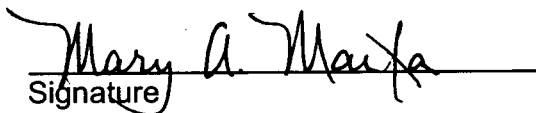
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

10/4/2007
Date

Title: REGULATORY ASSISTANT

Representing: EOG RESOURCES, INC.

RECEIVED

OCT 10 2007

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/ut/st/en/fo/vernal/html>



IN REPLY REFER TO:

3160

UT08300

May 27, 2008

Kaylene R. Gardner
EOG Resources, Inc.
1060 East Hwy 40
Vernal, UT 84078

43 013 32942

Re: Notice of Expiration
Well No. Nutters Canyon 1-2
NWNW, Sec. 2, T7S, R5W
Duchesne County, Utah
Lease No. UTU-78242

Dear Kaylene:

The Application for Permit to Drill (APD) the above-referenced well was approved on August 11, 2006. No extension of the original APD was requested. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact me at (435) 781-4455.

Sincerely,

Cindy Severson

Cindy Severson
Land Law Examiner

cc: UDOGM

RECEIVED
JUN 02 2008
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ
2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

10/1/2007

FROM: (Old Operator): N9550-EOG Resources, Inc. 600 17th St, Suite 1000N Denver, CO 80202 Phone: 1 (303) 824-5582	TO: (New Operator): N3295-Vantage Energy Uinta, LLC 116 Inverness Dr East, Suite 107 Englewood, CO 80112 Phone: 1 (303) 386-8600
--	--

CA No.				Unit:				
WELL NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
QUITCHAMPAU 1-15	15	060S	060W	4301332940		Federal	GW	APD
NUTTERS CYN 1-2	02	070S	050W	4301332942		Federal	GW	APD

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/18/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/18/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 10/30/2007
- a. Is the new operator registered in the State of Utah: Business Number: 6584978-0161
- b. If **NO**, the operator was contacted on:
- a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/31/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/31/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: 7/31/2008

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000288
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number n/a
- b. The **FORMER** operator has requested a release of liability from their bond on:

The Division sent response by letter on:

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS <small>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</small>		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-78242
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Transfer APD</u>	8. WELL NAME and NUMBER: Nutters Canyon 1-2	9. API NUMBER: 4301332942
2. NAME OF OPERATOR: EOG Resources, Inc	10. FIELD AND POOL, OR WILDCAT: Wildcat	
3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N Denver CO 80202	PHONE NUMBER: (303) 824-5582	

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **579' FNL & 669' FWL**

COUNTY: **Duchesne**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NWNW 2 T7S R5W 6**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

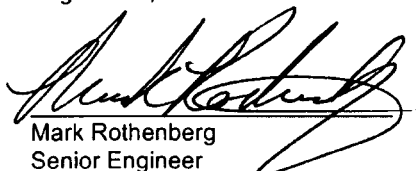
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input checked="" type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Vantage Energy Uinta LLC (Vantage) has purchased the reference lease from EOG Resources Inc (EOG) effective October 1, 2007. Vantage is now considered to be the operator of this lease and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Vantage requests the referenced well's APD be transferred from EOG to Vantage.

Vantage Energy Uinta LLC
116 Inverness Drive East, Suite 107
Englewood, CO 80112

N3295 Bond UTR000288
(303) 386-8600


Mark Rothenberg
Senior Engineer

Date: 6/30/08

NAME (PLEASE PRINT) <u>Amber Schuster</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u>Amber Schuster</u>	DATE <u>7/15/08</u>

(This space for State use only)

APPROVED 7/13/08

RECEIVED

JUL 18 2008

(5-2000)

Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

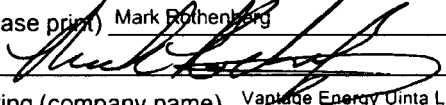
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	NUTTERS CANYON 1-2
API number:	4301332942
Location:	NWNW 2 7S 5W
Company that filed original application:	EOG RESOURCES INC
Date original permit was issued:	11/01/2005
Company that permit was issued to:	EOG RESOURCES INC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>UTB000288</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Mark Rothenberg Title Senior Engineer
Signature  Date 6/30/08
Representing (company name) Vantage Energy Uinta LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

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JUL 18 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 5

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: Nutters Canyon (Exxon Mobil Corp.)

LEASE NUMBER: UTU78242

and hereby designates

NAME: Vantage Energy Uinta LLC

ADDRESS: 116 Inverness Drive East, Suite 107

city Englewood state CO zip 80112

as his (check one) agent ☐ / operator ☒, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

UTU78242 - VERNAL FIELD OFFICE DUCHESNE ASHLEY NF:
T7S R5W Sec. 2: ALL; T7S R5W Sec. 3: ALL; T7S R5W Sec. 10: ALL; T7S R5W Sec. 11: ALL.

Plugged & Abandoned: Antelope Canyon Fed 1 - API No. 43-013-10414

Proposed: Nutters Canyon 1-2 - API No. 43-013-32942

Sec 2 T7S R5W

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 06/30/2008

BY: (Name) *CHARLES E. ARNOLD*
(Signature) *[Signature]*
(Title) *ATTORNEY-IN-FACT*
(Phone) *713-431-2068*

OF: (Company) *Exxon Mobil Corporation* *lessee*
(Address) *PO Box 4610*
city *Houston*
state *TX* *zip* *77210-4610*

(5/2000)

RECEIVED

AUG 06 2008

DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

CONFIDENTIAL

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2. NAME OF OPERATOR: Vantage Energy Uinta LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---
3. ADDRESS OF OPERATOR: 116 Inverness Drive East, Suite 107 Englewood CO 80112 CITY STATE ZIP		7. UNIT or CA AGREEMENT NAME: NA Ashley Forest unit
PHONE NUMBER: 303-386-8600		8. WELL NAME and NUMBER: Nutters Canyon 1-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 579' FNL 669' FWL COUNTY: DUCHESNE QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NW /4 NW /4 Sec. 2 T 7S R 5W U.S.B.&M. STATE: UT		9. API NUMBER: 43-013-32942
		10. FIELD AND POOL, OR WILDCAT: Wildcat

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The wellsite was staked at at 579' FNL 669' FWL (NW/4 NW/4) of Sec. 2 T7S R5W on May 6, 2005, by Uintah Engineering & Land Surveying (Uintah), surveyor, on a site that is geologically and topographically acceptable. The wellsite lies within the pending federal Ashley Forest Unit boundary.

EOG Resources, Inc. (EOG) submitted the original Application for Permit to Drill (APD) on October 27, 2005, to the Bureau of Land Management (BLM) in Vernal and to the Utah Division of Oil, Gas, and Mining (UDOGM). The well was assigned API No. 43-013-32942. The state approval was granted on November 1, 2005. Federal approval was granted on August 11, 2006. EOG requested that the well be drilled to a vertical depth of 13,400' to the Aberdeen formation.

Vantage Energy Uinta LLC (Vantage) acquired the mineral lease and will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD originally submitted by EOG.

Vantage respectfully requests that all information regarding this well be kept confidential.

Vantage plans to drill this well from the surface location of 579' FNL 669' FWL (NW/4 NW/4) of Sec. 2 T7S R5W directionally to a bottomhole location of $\pm 660'$ FNL $\pm 1,980'$ FWL (NE/4 NW/4) of Sec. 2 T7S R5W. Vantage plans to drill this well to 6,229' to the Wasatch formation.

549863X 34.907434
44174347 -110.416653

NAME (PLEASE PRINT) Mark Rothenberg	Senior Engineer for:
SIGNATURE <i>Mark Rothenberg</i>	Vantage Energy Uinta LLC
	DATE 8/11/08

(This space for State use only)

Approved by the
Utah Division of
Oil, Gas and Mining

Federal Approval of this
Action is Necessary

COPY SENT TO OPERATOR

Date: 9.8.2008

Initials: KS

Date: 09-08-08
Instructions on Reverse Side

By: *[Signature]*

RECEIVED

AUG 12 2008

DIV. OF OIL, GAS & MINING

Vantage Energy Uinta LLC
Nutters Canyon 1-2
API No. 43-013-32942
 Surface: 579' FNL 669' FWL (NW/4 NW/4)
 BHL: ±660' FNL ±1,980' FWL (NE/4 NW/4) Within a 50' Radius
 Sec. 2 T7S R5W
 Duchesne County, Utah
 Federal Lease: UTU78242

DRILLING PROGRAM
(All Drilling Procedures will be followed as Per Onshore Orders No. 1 and No. 2)

This Application for Permit to Drill (APD) was initially filed under the Notice of Staking (NOS) process as stated per Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. The process was changed to the "APD" process per Onshore Order No. 1. This document was prepared using language and requirements consistent with those previously approved by BLM for nearby wells. This APD process included an on-site meeting with BLM representatives and EOG Resources, Inc (EOG), at which time the specific concerns of EOG and BLM were discussed. Best efforts have been made to address specific concerns of the BLM representatives.

Vantage Energy Uinta LLC (Vantage) is the designated operator by ExxonMobil for this mineral lease and Vantage will be responsible for the compliance with all of the lease terms and conditions for that portion of the lease associated with the APD as originally submitted by EOG.

Please contact Mr. Mark Rothenberg, Senior Drilling Engineer at Vantage, 303-386-8600 if there are any questions or concerns regarding this Drilling Program.

a) GEOLOGIC MARKERS

Anticipated tops of geologic markers are indicated in **Table 1**

Table 1 Estimated Tops of Geologic Markers

Formation	Vertical Depth	Measured Depth	Subsea Depth	Description
Uinta	Surface	Surface	8,568'	Sandstone/siltstone/shale
Green River Upper Marker	1,832'	1,855'	6,736'	Sand and Siltstone
Mahogany	2,370'	2,410'	6,198'	Oil Shale
Douglas Creek	4,022'	4,117'	4,546'	Sandstone/siltstone/shale
Black Shale	4,578'	4,691'	3,990'	Sandstone/siltstone/shale
Castle Peak	4,937'	5,062'	3,631'	Sandstone/siltstone/shale
Uteland Butte	5,387'	5,527'	3,181'	Carbonate/shale/sandstone
Wasatch	5,567'	5,713'	3,001'	Shale/sandstone
Total Depth	6,067'	6,229'	2,501'	TD ± 500' TVD into Wasatch

Surface Elevation: 8,556' (Ground) 8,570' (Est. KB). Proposed Total Depth: 6,229' / 6,067' (MD/TVD)

b) DEPTHS OF WATER AND MINERAL-BEARING ZONES

Potential water-bearing zones in the vicinity include the Wasatch and Green River formations (Robson and Banta, 1995. *Ground Water Atlas of the United States Segment 2*, Hydrologic Investigations Atlas

730-C, U.S. Geological Survey, Reston, VA). A review of data from the Utah Division of Water Rights indicated no permitted water wells within three miles of the proposed location. Utah Division of Oil, Gas, and Mining surface casing depth requirements will protect potential aquifers in the area.

The depths to potential water and/or mineral-bearing zones are indicated in **Table 2**.

Table 2: Principal Anticipated Water and Mineral-bearing Zones

Formation	Measured Depth	Subsea	Potential Contents
Uinta	Surface	8,568'	Surface
Green River Upper Marker	1,855'	6,736'	Possible Water
Mahogany	2,410'	6,198'	Possible Water
Douglas Creek	4,117'	4,546'	Oil / Gas
Black Shale	4,691'	3,990'	Oil / Gas
Castle Peak	5,062'	3,631'	Oil / Gas
Uteland Butte	5,527'	3,181'	Oil / Gas
Wasatch	5,713'	3,001'	Oil / Gas

c) MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT

The maximum anticipated surface pressure for this well is calculated to be **1,335 psi**. Therefore, rules for a 2,000 psi rated BOP and choke manifold system are applicable. However, the typical rig inventory will consist of a 3,000 psi rated BOP and choke manifold. As such, the rig's BOP and choke manifold equipment will be tested to the standards for a 2,000 psi BOP system. A diagram of the proposed 2,000 psi rated BOP stack configuration is shown in **Fig. 1**.

BOPs and choke manifold will be installed and pressure tested before drilling out from under surface casing (subsequent pressure tests will be performed whenever pressure seals are broken) and then will be checked daily as to mechanical operating condition. BOPs will be pressure tested at least once every 30 days. The annular preventer, pipe rams, and blind rams will be activated on each trip and Operator will conduct weekly BOP drills with the rig crew.

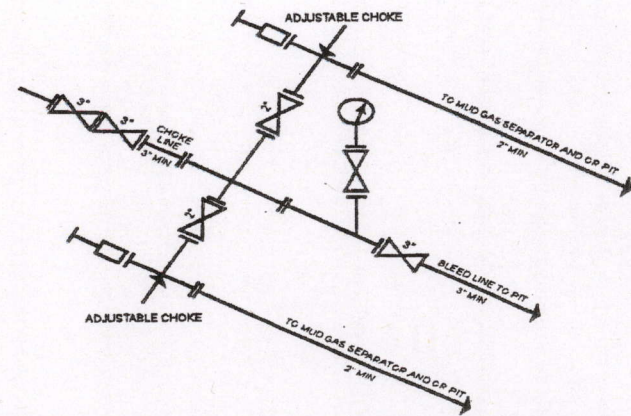
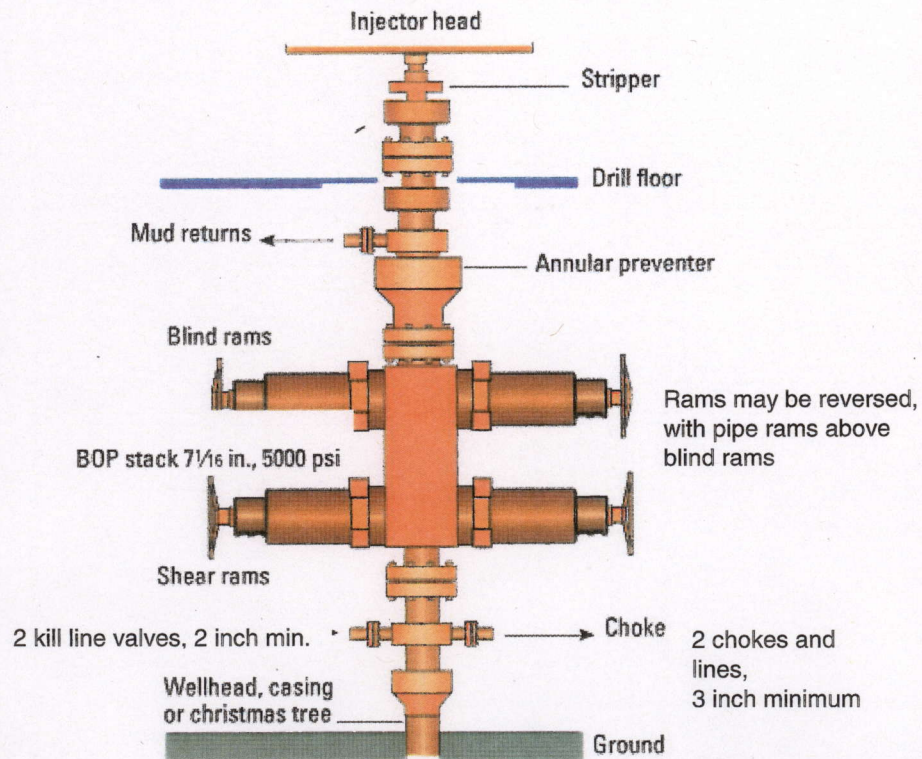
Ram type preventers and related pressure control equipment will be pressure tested to rated working pressure of the stack assembly if a test plug is used. If a plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield of the casing, whichever is less. **Please see variance request at end of program for this section.**

Annular type preventers will be pressure tested to 50% of their rated working pressure. A Sundry Notice (Form 3160~5), along with a copy of BOP test report, shall be submitted to the BLM within 5 working days following the test. All casings strings will be pressure tested to 0.22psi/ft or 1,500psi, whichever is greater, not to exceed 70% of internal yield. **Please see variance request at end of program for this section.**

Casing shoe will be tested by drilling out from below the shoe and testing to the maximum expected mud weight as discussed in the mud program specifications below. Both manual and remote closing mechanisms will be installed on the BOP stack and will be readily available to the driller.

Figure 1: Pressure Control Schematic
Operator and Well Name
Location
County and State

Generalized Setup for 2,000 psi Working Pressure System
Actual BOP Stack Used May Vary in Some Details



3M CHOKES MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY
[54 FR 39528, Sept. 27, 1989]

Installed BOP Stack Will Meet All Requirements of BLM Onshore Oil and Gas Order 2

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with *Onshore Oil and Gas Order No. 2* for 2,000 psi systems. Irregardless of the rig selected, the rig's accumulator system shall have sufficient capacity to close all BOP's and retain 200 psi above precharge. The proposed pressure control equipment will meet or exceed standards specified in the Order.

d) CASING PROGRAM

Casing of quality equal to or better than that indicated in **Tables 3 and 4** will be used for this well. Actual casing used will be dependent on availability.

Table 3 Proposed Casing Program

Depth (MD)	Hole Diameter	Casing Diameter	Casing Weight and Grade
0 – ± 50'	20"	14"	Optional Conductor – Only if Required
0 – 350'	12 1/4"	8 5/8"	24# J55 ST&C, API New Pipe
0 – 6,229'	7 7/8"	5 1/2"	15.5# K55 LT&C, API New Pipe

Table 4: Proposed Casing Specifications and Design Safety Factors

Size	Collapse (psi)	Burst (psi)	Body Strength (1,000 lbs.)	Joint Strength (1,000 lbs.)	Thread	*Safety Factors		
						Burst Design (1.2)	Collapse Design (1.0)	Tension Design (1.4)
14"	NA – 0.219" wall structural and to seal shallow gravels to allow air drilling surface hole				Weld	NA	NA	NA
8 5/8" 24# J55	1,370	2,950	381	244	ST&C	1.42	6.27	4.17
5 1/2" 15.5# J55	4,040	4,810	248	217	LT&C	1.25	1.51	1.62

Safety Factor Calculation Assumptions:*Surface Casing:**

Burst Load: Assumes greater of MASP (maximum anticipated surface pressure) exposure during a worse case kick scenario while drilling at total depth, with mud/gas mixture whose gradient is 0.22 psi/ft. OR, minimum required casing test pressure.

MASP

$$\begin{aligned}
 \text{Load} &= (\text{Formation Gradient} - 0.22 \text{ psi/ft}) * \text{Total Depth, TVD} \\
 &= (0.44 \text{ psi/ft} - 0.22 \text{ psi/ft}) * 6,067 \text{ ft.} \\
 &= 1,335 \text{ psi}
 \end{aligned}$$

TEST PRESSURE

$$\text{Load} = \text{Greater of } 1500 \text{ psig or } 0.70 * 2950 = 2065 \text{ psig}$$

$$\text{SF Burst} = 2,950 \text{ psi} / 2,065 \text{ psi} = 1.42$$

Collapse Load: Assumes worse case loading of evacuated casing during cementing process.

Cement density = 12.0 ppg

$$\begin{aligned}\text{Load} &= 12.0 \text{ ppg} * 0.052 * 350 \text{ ft} \\ &= 218.4 \text{ psi}\end{aligned}$$

$$\text{SF Collapse} = 1370 \text{ psi} / 218.4 \text{ psi} = 6.27$$

Tension Load: Assumes air weight at total depth + 50,000 lbs overpull design factor.

$$\begin{aligned}\text{Load} &= (24 \text{ lbs/ft} * 350 \text{ ft}) + 50,000 \text{ lbs overpull} \\ &= 58,400 \text{ lbs}\end{aligned}$$

$$\text{SF Tension} = 244,000 \text{ lbs} / 58,400 \text{ lbs} = 4.17$$

Test Pressure =

Production Casing

Burst Load: Assumes maximum load applied during the hydraulic fracture stimulations. It is Vantage Energy's policy not to exceed 80% rating of the production casing during the stimulation treatment. The 80% rating factor will also be the casing test pressure.

$$\begin{aligned}\text{Load} &= 4810 \text{ psi} * 0.80 \\ &= 3848 \text{ psi}\end{aligned}$$

$$\text{SF Burst} = 4810 \text{ psi} / 3848 \text{ psi} = 1.25$$

Collapse Load: Assumes worse case loading applied during the production cycle, with evacuated casing, and normally pressured formation gradient applied externally.

$$\begin{aligned}\text{Load} &= 0.44 \text{ psi/ft} * 6067 \text{ ft} \\ &= 2670 \text{ psi}\end{aligned}$$

$$\text{SF Collapse} = 4040 \text{ psi} / 2670 \text{ psi} = 1.51$$

Tension Load: Assumes buoyed weight of casing at total depth + 50,000 lbs overpull design factor.

$$\begin{aligned}\text{Load} &= [15.5 \text{ lbs/ft} * 6229 \text{ ft} * ((65.5 - 8.6) / 65.5)] + 50,000 \text{ lbs} \\ &= 83,873 \text{ lbs} + 50,000 \text{ lbs} \\ &= 133,873 \text{ lbs}\end{aligned}$$

$$\text{SF Tension} = 217,000 \text{ lbs} / 133,873 \text{ lbs} = 1.62$$

e) CEMENT PROGRAM

Table 5: Proposed Cement Program

Depth	Hole Diameter	Casing Diameter	Cement
0' – ± 50'	20"	14"	Optional structural conductor if required: Grout with approximately 4 cubic yards of redi-mix back to surface (includes 100% excess) TOC: Surface (Top-off per visual observation)
0' – 350'	12 1/4"	8 5/8"	<u>Single Slurry System (350' – Surface) + 40' Shoe Joint</u> 263 sks Class G + 2% CaCl ₂ + ¼ lb/sk celloflake. Density: 15.8 ppg Yield: 1.15 cuft/sk Water: 5.0 gal/sk Excess = 100% TOC: Surface (Top-off per visual observation)
0' - 6,229'	7 7/8"	5 1/2"	<u>Lead System (4,000' – 2,000')</u> 120 sks Type "V" + 16% Gel + 10 lbs/sk gilsonite + 3% Salt + ¼ lb/sk celloflake Density: 11.0 ppg Yield: 3.82 cuft/sk Water: 23.0 gal/sk *Excess: 30% <u>Tail System (6,229' – 4,000') + 40' Shoe Joint</u> 400 sks 50:50 (Class G:Poz) + 2% gel + 10% salt + ¼ lb/sk celloflake Density: 14.2 ppg Yield: 1.26 cuft/sk Water: 5.75 gal/sk *Excess: 30%

*Note: The production hole cement volume will be determined by the caliper log, using caliper volume + 10% excess factor.

f) MUD PROGRAM

The mud program for the proposed well is indicated in **Table 6**.

Table 6 Proposed Mud Program (See attached Halliburton mud program)

Interval (feet)	Mud Weight (lbs/gallon)	Viscosity (secs/qt)	Fluid Loss (ccs/30 min)	Mud Type
0 – ± 50'	NA	NA	NA	NA
Set optional 14" conductor with bucket rig				
50' - 350'±	NA	NA	N/C	Air/Mist
Run/cement 8 5/8" surface casing				
350'± - TD	8.5 – 8.6	28 - 38	< 20	KCL Water / PHPA / DAP
Run Logs – Run/cement 5 1/2" production casing				

Surface Hole Comments: Spud with “spudder rig” and air drill surface hole misting as may be required to assist with cuttings removal. Report any water encountered to the appropriate agencies. **Please see variance requests for this section.**

Production Hole Comments: Dump spud mud to reserve pit. Drill out surface casing with fresh water adding 6 ppb DAP (Diammonium Phosphate) for shale inhibition and corrosion control. Circulate the reserve pit and flocculate out drill solids. Use pre-hydrated gel and PHPA polymer mud sweeps to assist with hole cleaning. At approximately 3,600' “mud up” and “close in” the fluid system to a 2-3% KCL base fluid. Use PHPA PAC and lignite for filtration control. Maintain fluid system through potential production zones to TD. Should seepage losses be experienced, control with LCM sweeps consisting of calcium carbonate, sawdust, cedar fiber, or mica.

Sufficient mud materials will be maintained on location to adequately maintain mud properties and contain any well kicks. Monitoring equipment will be installed on site to detect changes in mud volume.

g) LOGGING, CORING, AND TESTING PROGRAM

The proposed logging program is indicated in **Table 7**.

Table 7 Proposed Logging Program

Log Suites	Depth Range	Remarks
DIL-SP-LD-CN	Surface Casing to TD	Standard "triple combo" equivalent with resistivity-spontaneous potential, litho-density, compensated neutron, gamma ray, and caliper Will pull GR to surface
Dipole Sonic	± 4,000' to TD	Optional – Operator's discretion Rock property data
Rotary Sidewall Cores	± 4,000' to TD	Optional – Operator's discretion PP/Lithology data (perm-porosity)

No coring or drill stem tests are planned. Mud logging unit will be operational from 200 feet above the Douglas Creek through total depth. Cuttings will be sampled every 20-30 feet.

Prospective zones from the Douglas Creek formation through total depth will be perforated, tested, and potentially acid-washed. It is anticipated that multi-stage hydraulic fracture stimulations of the reservoir will be required.

h) ANTICIPATED PRESSURES AND HAZARDS

No abnormal pressures are anticipated. Pressure gradient in the Green River and Wasatch sequence is expected to be sub-normal pressured to less than 0.44 psi/ft.

Estimated BHP Douglas Creek (4,022')	1,770 psi
Estimated BHP Wasatch (5,567')	2,450 psi
Estimated BHP Total Depth (6,067')	2,670 psi
Hydrostatic head of gas/mud	0.22 psi/ft.
Maximum design surface pressure	$0.44 - 0.22 \text{ psi/ft} \times 6,067 \text{ ft} = \mathbf{1,335 \text{ psi}}$

No H₂S zones are anticipated. No abnormal lost circulation zones are anticipated. The proposed well is a southern extension test of development drilling being conducted by Berry Petroleum in T5-6-R5W. In addition, the proposed well is located on a previously drilled well site, the Antelope Canyon Federal No. 1, which was drilled to a total depth of 5,769' in June 1964, by Gulf Oil Corporation. There were no abnormal hazards reported during the drilling of this well.

i) DIRECTIONAL PROGRAM (See attached directional plan by Multi-Shot LLC)

The Nutters Canyon 1-02 will be drilled as a directional well, with a bottom hole located in the center of NE¼ NW¼ Section 2, T7S-R5W. The vertical section distance will be a planned distance of 1,313'. The bottom hole will be landed within a 50' radius target tolerance. The directional plan will consist of a "build-and-hold" profile, with a planned KOP of 500', a build rate of 1.5°/50', and a final hold inclination of 14.5 degrees.

The purpose of the directional well is twofold: 1) To gain distance away from the old wellbore, Antelope Canyon Federal No. 1, which was drilled in June 1964, to insure communication to this old wellbore does not occur during the stimulation treatments planned during the completion phase, and 2) to better position the well on a "perfect" 40-acre drainage pattern for future development considerations.

j) OTHER INFORMATIONContact Information and PersonnelMailing Address

Vantage Energy Uinta LLC
116 Inverness Drive, Suite 107
Englewood, CO 80112
Main Number: 303-386-8600
Fax Number: 303-386-8700

Primary Contact: Mark Rothenberg

Office Direct: 303-386-8605
Fax Direct: 303-386-8705
Mobile: 303-885-5462
E-Mail: Mark.Rothenberg@VantageEnergy.com

Drilling Operations: John Moran

Office Direct: 303-386-8610
Fax Direct: 303-386-8710
Mobile: 303-249-2234
E-Mail: John.Moran@VantageEnergy.com

Completion/Production Operations: Ed Long

Office Direct: 303-386-8639

Fax Direct: 303-386-8739

Mobile: 720-635-2125

E-Mail: Ed.Long@VantageEnergy.com

Geologist: Andrea Steinle

Office Direct: 303-386-8632

Fax Direct: 303-386-8732

Mobile: 303-408-0994

E-Mail: Andrea.Steinle@VantageEnergy.com

Landman: Michael Holland

Office Direct: 303-386-8638

Fax Direct: 303-386-8738

Mobile: 303-396-3443

E-Mail: Michael.Holland@VantageEnergy.com

START DATE AND DURATION OF ACTIVITIES

Anticipated start date

The drilling operations will commence as soon as possible following contracting of drilling rig and in compliance with restrictions imposed by lease stipulations and/or Conditions of Approval. It is therefore anticipated the access upgrade work and location work would commence on or about August 15, 2008, with a target spud date of September 1, 2008. It is anticipated the drilling phase will require 7 days.

Completion

The well pad will be of sufficient size to accommodate all required completion equipment and activities.

It is anticipated select intervals will be perforated, stimulated and adequately tested for the presence of commercial hydrocarbons prior to moving uphole to the next prospective test interval. As such, it is anticipated the completion phase will require 45 days.

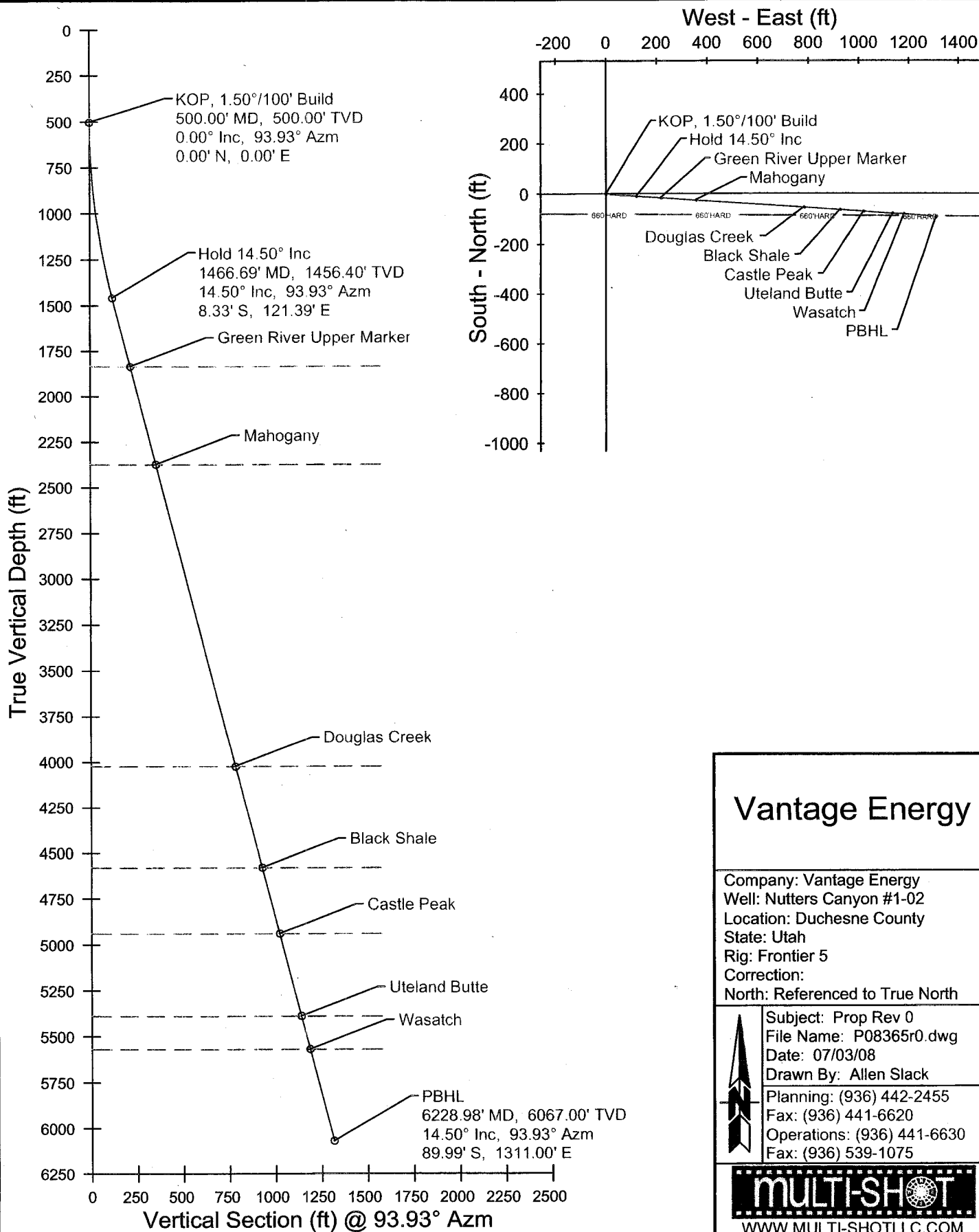
The total project duration is therefore estimated to be **52 days**, and therefore anticipated to be concluded on or about October 22, 2008.

A string of 2 7/8 inch 6.5 lb/ft. J-55 tubing would be run as the production tubing. A Sundry Notice will be submitted should there be any changes to the proposed completion program.

VARIANCE REQUESTS

1. Operator requests a variance to *Onshore Oil and Gas Order 2, Item B, No. 1h*, regulations requiring the surface casing be tested to the greater of 1500 psig, or 70% of the minimum internal yield.
 - a. The MASP for this well is calculated to be 1,335 psig, while the 70% yield rating is 2,065 psig.
 - b. Operator therefore requests approval to test the surface casing to the lesser value of 1,500 psig which is greater than the MASP value.
2. Operator requests a variance to *Onshore Oil and Gas Order 2, Item A*, regulations which outline test pressures for 3M pressure control systems.

- a. The drilling contractor's standard inventory will consist of 3M pressure control systems; however, as cited above, the MASP for this well is calculated to be 1,430 psig. As such, 2M pressure control equipment is sufficient for the drilling of this well.
 - b. Operator therefore requests approval to test contractor's 3M BOPE to 2M pressure system standards. The double ram preventer will be tested to 2,000 psig, and the annular preventer will be tested to 1,500 psig. Safety valves and choke/kill valves and lines will all be tested to 2,000 psig.
3. Operator requests a variance to *Onshore Oil and Gas Order 2, Item E*, regulations for air/gas drilling operations. Operator plans to drill only the surface hole to a depth of 350', with a "spud rig", in a separate operation from the drilling rig. No hydrocarbons are present in the surface hole section and therefore, "gas" drilling is not applicable to this hole section. Therefore, for the purpose only of drilling the surface hole with an air rig, Operator requests the following four (4) variances from the order that states "...the following equipment shall be in place and operational during air/gas drilling: (1) properly lubricated and maintained rotating head; (2) blooie line discharge one hundred feet (100') from wellbore; (3) automatic igniter or continuous pilot light on the blooie line; and (4) compressor located...a minimum of 100 feet (100') from the wellbore".
 - a. Operator requests approval to use a diverter bowl rather than a rotating head as specified in the Order. The diverter bowl forces air and cuttings to the reserve pit and is only used to drill the surface hole (to a total depth of 350'). The surface hole section is non-hydrocarbon bearing, and therefore formation pressures will not require a pressure rated rotating head. Should water flows be encountered, they will be reported to the appropriate agencies.
 - b. Operator requests approval to use a blooie line with a discharge length of less than the required one hundred feet (100') from the wellbore in order to minimize the well pad size, and to direct the cuttings into the reserve pit. The wellbore is to be located approximately thirty-five feet (35') from the reserve pit which is to be seventy feet (70') wide. Therefore, a one hundred foot (100') blooie line would blow cuttings across the reserve pit. The requested length of blooie line to drill the surface hole is thirty-five feet (35'). This is the distance necessary to reach the edge of the reserve pit, and to therefore direct cuttings into the reserve pit in a safe and efficient manner.
 - c. Operator requests approval to operate without an automatic igniter or continuous pilot light on the blooie line. The surface hole section is non-hydrocarbon bearing and therefore does not require a continuous ignition source.
 - d. Operator requests approval to use a trailer mounted air compressor located less than one hundred feet (100') from the wellbore in order to minimize the location size. The compressor will be located fifty feet (50') from the wellbore in an opposite direction of the blooie line. The compressor has the following safety features: (1) shut-off valve on the trailer located approximately fifteen feet (15') from the air rig; (2) pressure relief valve on the compressor; and (3) spark arrestors on the motors. The compressor will only be used for the drilling of the surface hole, which is non-hydrocarbon bearing.



Vantage Energy

Company: Vantage Energy
 Well: Nutters Canyon #1-02
 Location: Duchesne County
 State: Utah
 Rig: Frontier 5
 Correction:
 North: Referenced to True North

Subject: Prop Rev 0
 File Name: P08365r0.dwg
 Date: 07/03/08
 Drawn By: Allen Slack
 Planning: (936) 442-2455
 Fax: (936) 441-6620
 Operations: (936) 441-6630
 Fax: (936) 539-1075

MULTI-SHOT
 WWW.MULTI-SHOTLLC.COM

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.



Job Number: P08-365
 Company: Vantage Energy
 Lease/Well: Nutters Canyon #1-02
 Location: Duchesne County
 Rig Name: Frontier 5
 RKB: 12'
 G.L. or M.S.L.: 8556'

State/Country: Utah
 Declination:
 Grid: Referenced to True North
 File name: F:\WELLPL-1\2008\IP08360\S\IP08365\08365.SVY
 Date/Time: 03-Jul-08 / 15:56
 Curve Name: Prop Rev 0

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 93.93
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
500.00	.00	93.93	500.00	.00	.00	.00	.00	.00	.00
600.00	1.50	93.93	599.99	-.09	1.31	1.31	1.31	93.93	1.50
700.00	3.00	93.93	699.91	-.36	5.22	5.23	5.23	93.93	1.50
800.00	4.50	93.93	799.69	-.81	11.75	11.77	11.77	93.93	1.50
900.00	6.00	93.93	899.27	-1.43	20.88	20.92	20.92	93.93	1.50
1000.00	7.50	93.93	998.57	-2.24	32.60	32.68	32.68	93.93	1.50
1100.00	9.00	93.93	1097.54	-3.22	46.92	47.03	47.03	93.93	1.50
1200.00	10.50	93.93	1196.09	-4.38	63.81	63.96	63.96	93.93	1.50
1300.00	12.00	93.93	1294.16	-5.72	83.27	83.47	83.47	93.93	1.50
1400.00	13.50	93.93	1391.70	-7.23	105.29	105.54	105.54	93.93	1.50
Hold 14.50° Inc									
1466.69	14.50	93.93	1456.40	-8.33	121.39	121.67	121.67	93.93	1.50
Green River Upper Marker									
1854.64	14.50	93.93	1832.00	-14.98	218.30	218.81	218.81	93.93	.00
Mahogany									
2410.35	14.50	93.93	2370.00	-24.51	357.11	357.95	357.95	93.93	.00
Douglas Creek									
4116.70	14.50	93.93	4022.00	-53.77	783.36	785.20	785.20	93.93	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Black Shale									
4690.99	14.50	93.93	4578.00	-63.62	926.81	928.99	928.99	93.93	.00
Castle Peak									
5061.80	14.50	93.93	4937.00	-69.98	1019.44	1021.84	1021.84	93.93	.00
Uteland Butte									
5526.61	14.50	93.93	5387.00	-77.95	1135.55	1138.22	1138.22	93.93	.00
Wasatch									
5712.53	14.50	93.93	5567.00	-81.13	1181.99	1184.77	1184.77	93.93	.00
PBHL									
6228.98	14.50	93.93	6067.00	-89.99	1311.00	1314.09	1314.09	93.93	.00



August 13, 2008

Ms. Diana Mason
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Ste. 1210
Salt Lake City, Utah 84114

43-013329-42

Re: Directional Drilling R649-3-11
Vantage Energy Uinta LLC, Nutters Canyon 1-2
579' FNL, 669' FWL, NW NW Section 2, T7S, R5W, USBM (surface)
660' FNL, 1,980' FWL, NE NW Section 2, T7S, R5W, USBM (bottomhole)
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on July 18, 2008, we are hereby submitting this letter in accordance with Oil and Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Vantage's Nutters Canyon 1-2 is an exploratory well located within the Ashley National Forest.
- Vantage is permitting this well as a directional hole in order to minimize surface disturbance. The well pad will partially overlie a previously drilled exploratory test, the Gulf Oil Antelope Canyon Federal 1. Vantage will reuse a significant portion of the original well site disturbed areas for part of the well pad and access road.
- Vantage wishes to avoid potential conflict with the previously drilled wellbore, particularly during stimulation operations, by placing the bottomhole location some distance away from the surface location.
- The proposed bottomhole location would allow for future evenly-spaced 40 acre development as the bottomhole coordinates are in the center of the NE NW quarter quarter of the section.

Vantage hereby certifies that it either contractually or otherwise controls 100% working interest within 460 feet of the entire directional well bore and within Section 2 (federal oil and gas lease UTU78242).

RECEIVED

AUG 14 2008

DIV. OF OIL, GAS & MINING



Should there be any additional information you may require for the evaluation and approval of this request, please contact me at 303-386-8610.

Sincerely,

VANTAGE ENERGY UINTELLC
John J Moran Jr
Senior Engineer

Attachments: Directional Well Plan
Nutters Canyon 1-2

34

35

36

SOWER CANYON F
(INACTIVE)

T6S R5W

T7S R5W

NUTTERS
CYN 1-2
* ANTELOPE
CANYON FED 1 * BHL
1-2

3

2

1

ASHLEY FOREST UNIT

10

11

12








OPERATOR: VANTAGE ENERGY UINTA (N3295)











SEC: 2 T.7S R. 5W

FIELD: WILDCAT (001)














COUNTY: DUCHESNE

SPACING: R649-3-11 / DIRECTIONAL DRILLING

Field Status
 ABANDONED
 ACTIVE
 COMBINED
 INACTIVE
 PROPOSED
 STORAGE
 TERMINATED

Unit Status
 EXPLORATORY
 GAS STORAGE
 NF PP OIL
 NF SECONDARY
 PENDING
 PI OIL
 PP GAS
 PP GEOTHERML
 PP OIL
 SECONDARY
 TERMINATED

Wells Status

 GAS INJECTION
 GAS STORAGE
 LOCATION ABANDONED
 NEW LOCATION
 PLUGGED & ABANDONED
 PRODUCING GAS
 PRODUCING OIL
 SHUT-IN GAS
 SHUT-IN OIL
 TEMP. ABANDONED
 TEST WELL
 WATER INJECTION
 WATER SUPPLY
 WATER DISPOSAL
 DRILLING



PREPARED BY: DIANA MASON
DATE: 27-AUGUST-2008

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 4, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Ashley Forest Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2008 within the Ashley Forest Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed TD Wasatch)		
43-013-32942	Nutters Canyon 1-2 Sec 2 T07S R05W 0579 FNL 0669 FWL	
	BHL Sec 2 T07S R05W 0660 FNL 1980 FWL	

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Ashley Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-4-08

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Vantage Energy Uinta LLC Operator Account Number: N 3295
Address: 116 Inverness Drive East #107
city Englewood
state CO zip 80112 Phone Number: (303) 386-8600

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301334037	Gilsonite 1-20		NWNW	20	6S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17118	9/6/2008		9/30/08		
Comments: <u>WSTC BHL = NENW</u> CONFIDENTIAL							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301332942	Nutters Canyon 1-2		NWNW	2	7S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17119	9/18/2008		9/30/08		
Comments: <u>WSTC BHL = NWNW</u> CONFIDENTIAL							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments: 							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Mark Rothenberg

Name (Please Print)

Signature

Senior Engineer

Title

9/30/08
Date

RECEIVED

SEP 30 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)
(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X

8. Well Name and No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

10. Field and Pool or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Drilling Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The well was spud on 9/19/08.

Enclosed is the Drilling Activity Report from 9/18/08 - 9/19/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature

Date 9/29/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

RECEIVED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OCT 02 2008

(Instructions on page 2)

DIV. OF OIL, GAS & MINING

Date	Activity
9/18/2008	Travel To Location Drill 40' of 20" Conductoor Holle Run Conductor Pipe Cement With 3 Yards Redi Mix
9/19/2008	Rig Up To Dril Drill 40' to 376' 12.250 Surface Hole Run Surface Casing: Float Shoe-Shoe Joint-Float Collar-8 Jts 8.652" 24# K55 STC 8rd Exploreco Rig Release: 9:30 Will Cement In A.M. Soonest Cementers Available

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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OMB No. 1004-0137
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UTU-78242

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SUBMIT IN TRIPLICATE – Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X

8. Well Name and No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address

116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)

(303) 386-8600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

10. Field and Pool or Exploratory Area
Wildcat

11. Country or Parish, State
Duchesne County, UT

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<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Drilling Activity</u>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
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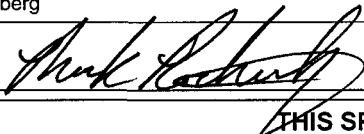
No Activity from 9/19/08 to 10/05/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date

10/6/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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(Instructions on page 2)

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OCT 09 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)
(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
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Submitting Sundry to ammend Sundry dated 10/6/2008 as well as include drilling activity details.

See attached details of activity performed 9/20/08-10/12/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date 10/17/08

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(Instructions on page 2)

RECEIVED

OCT 16 2008

DIV. OF OIL, GAS & MINING

- 9/20/2008 Cementers Arrived On Location
J.S.A.M.M. - Rig Up - Pre Operations Meeting
Cement Surface Csg.
Watch Cement Dropped 10' Stopped / Top Of To 4' & Held
- 9/30/2008 Receive well file and discuss path forward operations for this well. Drive to location and meet with Rat Hole Drilling crew to discuss rat/mouse hole operations.
Drive to desired rig (Frontier 5) and meet with Tool Pusher about expected rig move dates and rig move operations.
- 10/1/2008 Idle
Drill and place pipe in rat and mouse holes.
- 10/9/2008 Idle
Moving rig onto location. Rig doghouse fell off trailer. Sent to town for repairs.
Idle
- 10/10/2008 Idle
Rigging up
Idle
Rig repairs should be complete tomorrow afternoon and rig components should be shipped to rig.
- 10/11/2008 Idle
Break tower. Continue to rig up and wait for water tank, dog house and accumulator.
- 10/12/2008 Rigging up
Rig up BOP Tester. Conduct BOP Test per APD requirements. Cold weather kept freezing water

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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abandoned well. Use Form 3160-3 (APD) for such proposals.**

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UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)
(303) 386-8600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
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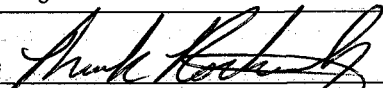
See attached details of activity performed 10/13/08 -10/19/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date 10/21/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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(Instructions on page 2)

RECEIVED

OCT 27 2008

DIV. OF OIL, GAS & MINING

10/13/2008 Safety meeting and discuss operations with rig and directional crews.
Pick up BHA. Thaw out mud pumps and circ lines. Drill out casing shoe.
Drilling from 364' to 1806'

10/14/2008 Drilling from 1806 to 3100. MWD tool not receiving signal.
Pump dry pill and pull out of hole to replace MWD tool.
Partial loss of returns at 2650', approximately 110 bbls.
Loss of returns at 2900', approximately 185 bbls.

10/15/2008 Pull out of hole to change MWD tools.
Change MWD tools. Check tools for proper operation. Run in hole.
Orient tools for sliding. Loose returns and pump high vis/low lcm sweep.
Drilling from 3,100' to 3,887' MD.

10/16/2008 Drilling from 3,887' to 4,332'.
Troubleshoot MWD problems.
Pull out of hole to replace MWD and Mud Motor.

10/17/2008 Run in hole with new mud motor and new MWD. Test MWD sucessfully. Finish RIH.
Drilling from 4,332' to 4,740'

10/18/2008 Drilling from 4,740' to 5,274'

10/19/2008 Drilling from 5,274' to 5,901'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)
(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X

8. Well Name and No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

10. Field and Pool or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Drilling Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

See attached details of activity performed 10/20/08 -10/23/08.

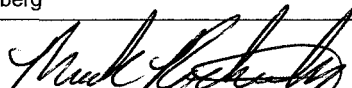
Reached TD of 6275' on 10/19/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date 10/27/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
OCT 30 2008

DIV. OF OIL, GAS & MINING

- 10/20/2008 Drilling from 5,901' to 6275'. Reached TD of 6275'
Run High Viscosity Sweep over shaker.
Short trip of 9 stands
Run High Viscosity Sweep over shaker. Spot pill in bottom of hole
Pull out of hole for wireline logs.
Wait on Wireline Truck.
Run wireline logs. Tools could not go past 2,700'
Make wiper trip.
- 10/21/2008 Make wiper trip.
Circulate and condition hole. Spot gypsum pill at 2,700'.
Pull out of hole for logs.
Rig up wireline truck and run logs. Wireline TD @ 6,260' WLM.
Run in hole to condition hole for casing run.
Condition hole for running casing
Rig up lay down machine.
- 10/22/2008 Laying down drill string.
Rig up casing crew. Run production casing. Tag up at approximately 6,224' SLM.
Circulate hole. Unable to work casing any lower.
Rig down casing crew. Rig up cement crew. Wait on product to be delivered. Circulate hole.
Pump cement. Loss of returns. Annulus empty. 75 bbls. Into displacement returns established.
Set plug.
Add LCM into annulus and circulate over top of hole. Set slips at 100k string weight.
- 10/23/2008 Set slips on production casing @ 100k string weight.
Nipple down stack and cut casing off at surface so rig could be moved.
Release rig.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-78242
2. NAME OF OPERATOR: Vantage Energy Uinta LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: _____
3. ADDRESS OF OPERATOR: 116 Inverness Dr. East #107 Englewood CO 80112		7. UNIT or CA AGREEMENT NAME: Ashley Forest Unit UTU-86335X
4. LOCATION OF WELL FOOTAGES AT SURFACE: 579' FNL & 669' FWL QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 2 T7S R5W 6		8. WELL NAME and NUMBER: Nutters Canyon 1-2
PHONE NUMBER: (303) 386-8600		9. API NUMBER: 4301332942
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Wildcat
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The proposed bottom hole location for the referenced well was 660' FNL, 1,980' FWL, NE NW Section 2, T7S, R5W.

The actual bottom location achieved is 682' FNL, 1,949' FWL, NE NW Section 2, T7S, R5W.

Enclosed is the directional letter updating the actual bottom hole location.

549853X
44174294
39.907370
-110.416768

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 11-05-08
By: [Signature]

NAME (PLEASE PRINT) John Moran	TITLE Senior Engineer
SIGNATURE [Signature]	DATE 11/4/08

(This space for State use only)

COPY SENT TO OPERATOR

Date: 11.6.2008
Initials: KS



November 3, 2008

Ms. Diana Mason
Utah Division of Oil, Gas, and Mining
1594 West North Temple, Ste. 1210
Salt Lake City, Utah 84114

Re: Directional Drilling R649-3-11
Vantage Energy Uinta LLC, Nutters Canyon 1-2
579' FNL, 669' FWL, NW NW Section 2, T7S, R5W, USBM (surface)
682' FNL, 1,949' FWL, NE NW Section 2, T7S, R5W, USBM (bottomhole)
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Vantage Energy Uinta LLC's (Vantage) Application for Permit to Drill regarding the above referenced well on July 18, 2008, we are hereby submitting this letter in accordance with Oil and Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Vantage's Nutters Canyon 1-2 is an exploratory well located within the Ashley National Forest.
- Vantage is permitting this well as a directional hole in order to minimize surface disturbance. The well pad will partially overlies a previously drilled exploratory test, the Gulf Oil Antelope Canyon Federal 1. Vantage will reuse a significant portion of the original well site disturbed areas for part of the well pad and access road.
- Vantage wishes to avoid potential conflict with the previously drilled wellbore, particularly during stimulation operations, by placing the bottomhole location some distance away from the surface location.
- The proposed bottomhole location would allow for future evenly-spaced 40 acre development as the bottomhole coordinates are in the center of the NE NW quarter quarter of the section.

Vantage hereby certifies that it either contractually or otherwise controls 100% working interest within 460 feet of the entire directional well bore and within Section 2 (federal oil and gas lease UTU78242).



Should there be any additional information you may require for the evaluation and approval of this request, please contact me at 303-386-8610.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Moran Jr.", is placed above the printed name.

VANTAGE ENERGY UINTELLIGENCE LLC

John J Moran Jr
Senior Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address

116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)

(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X

8. Well Name and No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

10. Field and Pool or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

11. Country or Parish, State
Duchesne County, UT

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Completion Activity
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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Enclosed is the Completion Activity Report from 10/23/08 to 11/9/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature

Date 11/10/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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Office

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(Instructions on page 2)

RECEIVED

NOV 17 2008

DIV. OF OIL, GAS & MININ

- 10/23/2008 Safety Meeting, Review JSA
Spot Opsco Energy flow bacj equip, Spot Dalbo flow back tank, Weld on Wellhead Inc 7 1/16" 5k wellhead w/ 5k gate wing valves on CSG
- 10/24/2008 Safety Meeting, Review JSA
Blade loc, spot in oil tank and install stairs, Haul off Drlg mud from 3- 400bbl uprights on loc, Spot 2 clean 400bbl tanks in place f/ frac, NU 7 1/6" dbl gate BOPs w/ 2 sets of blinds, Hook up kummy and function test ok
- 10/25/2008 Safety Meeting, Reviiew JSA w/ Action Hot Oil
Perolog WL lost in field, Went to guide to loc
Safety Meeting, Reviiew JSA w/ all personel
Spot in and RU Perolog WL, MU andRIH w/ 4.75" GR/ Junk Basket and tag at 6129' WLM, POH LD tools, MU and PU CCL Gama and CBL RIH to 6129' POH logging, LD tools, RD and release Perfolog WL
PSI test CSG and BOPs to 4500 Psi f/ 15 mins OK, RD and release Hot Oiler
- 10/26/2008 Wait on 2- 500bbl tanks to arrive from rocksprings WY, Spot in tanks, Haul in 1 load of 2% kcl, 2 frac tanks are full
- 10/27/2008 Safety Meeting, Review JSA
Spot in 2- 500 bbl tanks f/ storage during flow back, respot flow back tank
- 10/28/2008 Spot 1 more 400bbl upright, Total of 5 400bbl frac tanks, 2 are full of 2% kcl
- 10/29/2008 Safety Meeting, Review JSA
RU Opsco Energy lines and hoses To well, Flow back, Storage and Oil tanks, Cont to haul in 2% kcl frac fluid, Note: 5- 400bbl tanks will be full today
- 10/30/2008 Safety Meeting, Review JSA
Haul in and off load 223 jts 2 7/8", 6.5#, J55, R2, EUE, Note: 5- 400bbl Frac tanks full of 2% kcl frac fluid
- 10/31/2008 Safety Meeting, Review JSA
Heat 5 frac tanks to 125* Due to may not be able to aquire Action Hot Oil unit f/ 2 weeks, Cont to prep f/ frac
- 11/1/2008 Cont to prep f/ Frac, Note BWWC has ordered all Comp Equip needed f/ entire job, It will be at there shop in AM
- 11/2/2008 Safety Meeting, Review JSA
Spot in and RU Action Hot Oil unit, Heat 5- 400 bbl frac tanks to 125*, Cont to Prep f/ frac

- 11/3/2008 Safety Meeting, Review JSA
Line up 4 more 400 bbl frac tanks, Cont to prep f/ frac
- 11/4/2008 Safety Meeting, Review JSA
Haul in and spot 4- 400 bbl frac tanks from Gisonite 1-20, MI and spot air heater
- 11/5/2008 Safety Meeting, Review JSA
Haul in and off load 6 loads 2% kcl frac fluid, Tarp in Well head and Ru air heater, Spot and Fill 5 C02 vessels, Off load 8- 12x12 Seals off Roustabouts truck f/ tbg when spot tbg racks f/ Rig
- 11/6/2008 Safety Meeting, Review JSA
Perfolog CBL/CCL/Gamma Ray log DTD 10/25/08, Perf 5562-5712' OA w/ Owens 311T w/ 21 grams chgs, 120* phasing, .035 holes, Shoot a total of 44_.035" Entry holes, All shots fired OK, POH LD tools, RD and release BWWC.
Cont to RU Opsco and haul in 2% Frac fluid
Safety Meeting, Review JSA w/ all personel, Spot in and RU R&S Well Service Rig, Guy out, RU work floor, SHDN til AM
Ops SHDN til AM
- 11/7/2008 Safety Meeting, Review JSA w/ all personel
Move Tbg from racks to seals, Spot Tbg racks and Cat walk, Move Tbg from seals to Racks, Prep and Tally 170 Jts 2 7/8" J-55, Note: Total Jts on loc= 223
PU 1 Jt, MU XN Nipple, PU 163 Jts, EOT at 5103' kbm, RU swab equip, Haul in 6 more 400 bbl Frac tanks and begin filling, heat full tanks to 140*, SWI Secure.
Ops Shdn til am
- 11/8/2008 Safety Meeting, Review JSA
PU Swab equip, Tag fluid at surface, Make 22 Swab runs total, Swab down to 5000', Total fluid recovered= 91 bbl, Wait 30 mins and RIH did not tag fluid, Note: did not cut any Oil or Gas
Drain up lines
OPS Shdn til AM
- 11/9/2008 Safety Meeting Review JSA
RIH w/ Swab, Tag at 4950' POH, Sample contained a trace of oil, RD Swab equip, LD 14 Jts, TOH w/ 75 stands, Change Bop rams back to Blinds, Move Tbg racks and Cat walk, Winterize, Cont to prep f/ Frac, MI and Spot HES Sand Master, Wait on Frac crew
Ops Shdn til Am

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address
116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)
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Ashley Forest Federal Unit UTU-86335X

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Nutters Canyon 1-2

9. API Well No.
43-013-32942

10. Field and Pool or Exploratory Area
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4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
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11. Country or Parish, State
Duchesne County, UT

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Completion Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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Enclosed is the Weekly Completion Activity Report from 11/10/08 to 11/16/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date 11/17/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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(Instructions on page 2)

RECEIVED

NOV 19 2008

DIV. OF OIL, GAS & MINING

- 11/10/2008 Safety meeting, Review JSA
Wait on HES, Cont to prep f/ Frac, Begin to heat trace and insulate flow back and Oil lines.
- 11/11/2008 Safety Meeting, Review JSA
Cont to Prep f/ Frac, Wait on Halliburton Energy Services
- 11/12/2008 Safety Meeting, Review JSA
NU 7 1/16" 5k Frac valve, RU Work floor to proper height, Repair and Prep Rig pump f/ Drlg out
Wait on HES to Arrive
Spot in and RU HES Pumps and lines
OPS SHDN til AM
- 11/13/2008 Safety Meeting Review JSA
Prime up pumps, PSI test HES pumps and lines to 5000 psi OK, Shell test Frac valve and Opsco's line to 3000 psi OK, Check Chems at Blender, Prime up CO2 pumps
Frac stage 1 as per Procedure
Perfolog CCL/CBL/GR Log dtd 10/25/08, Set CBP at 5540' Log off CBP set OK, Correlate and Perf Castle Peak at 5521-23' w/ Owens 311T w/ 21 grm, chgs, 120* phasing, Shoot 8_.35" entry holes, Could not read meter to determine if guns were firing, Attempt to Perf 5481-83' Gun did not fire, POH
Break Lub and LD tools, Top Gun was wet due to O-Ring failure, Repair, Still could not obtain, Continuity Re-head Cable Head, Still w/ no Continuity, Road meet w/ BWWC Roosevelt UT, wait on different firing panel, (Release HES f/ night)
Replace firing panel, RIH w/ 3 1/8" Owens Perf gun w/ Dual fire subs, Correlate to Perfolog CCL/CBL/GR Log dtd 10/25/08, Perf Castle Peak at 5483-85', 5404-08', 5381-83' w/ Owens 311T w/ 21 grm chgs, 120* phasing, Shoot 16_.35 entry holes, POH, All shots fired OK, Winterize equip
OPS SHDN til AM
- 11/14/2008 Safety Meeting, Review JSA w/ all Personnel, Prep Loc f/ Frac and Wireline
SICP= 500 psi, MU HES Frac lines, Psi test to 5000 psi OK, Start Chems at Blender, Prime up all pumps
Frac Stg 2 as per Procedure
CCL/CBL/GR Log dtd 10/25/08, Set CBP at 5150' Log off CBP set OK, Correlate and Perf Castle Peak/Black Shale at 4986-88', 5004-06', 5036-42', 5072-74', 5081-83', 5106-10' w/ Owens 311T w/ 21 grm, chgs, 120* phasing, Shoot 36_.35" entry holes, Note: POH after 1st shot due to broken wire repair and cont to Perf Stage 3, POH LD tools
Frac Stg 3 as per Procedure
CCL/CBL/GR Log dtd 10/25/08, Set CBP at 4950' Log off CBP set OK, Correlate and Perf Black Shale at 4752-54', 4793-95', 4826-28', 4882-84', 4910-12' w/ Owens 311T w/ 21 grm, chgs, 120* phasing, Shoot 20_.35" entry holes, Note: POH
Frac Stg 4 as per Procedure
RD HES pumps and lines
SICP=900 psi, Open well to flow back tank on 16/64 pos Chk f/ 9 hrs Psi down to 400#, Open up to a 48/64 Chk, At 0600 hrs Fcp= 500#, Flow Back 130 bbl w/ good trace of Oil

CONFIDENTIAL

- 11/15/2008 Flow Well, Chk= 1", Fcp= 490 psi w/ a trace of Oil w/ Well Gas to surface, Specific gravity= 0.924, API= 21.7 at 60*
Safety Meeting Review JSA
MU and RIH w/ Kill Plug, BOT 7k CBP, Correlate to Perfolog CBL/CCL/GR log dtd 10/25/08, Set CBP at 4650', Log off CBP set OK, POH, RD and release BWWC
Bleed off Well, ND Frac Y and 7" frac valve, Note: Could not Fill well w/ 2% Kcl due to HES Equip obstructing Rig Pump, Frac tanks and Rig, HES did not arrive on Loc til 1500 hrs to begin moving Equip
Prep Work Floor to TIH w/ Tbg, MU BHA, Smith 4 3/4" Rock bit, Weatherford 2 7/8" Pump open Bit sub w/ Dart in sub, TIH w/ 164 Jts, Bit at 4627' kbm
Swi Secure, Assist Halliburton to complete RD and move off Loc
OPS Shdn til am
- 11/16/2008 Safety Review JSA
RD Tbg equip and work floor, NU Annular BOP and Spool w/ Bleed off valve
MU pump lines, Hang Kelly hose, PU and RU P-swivel, Spot Tbg racks, Cat walk and Tbg, Move 2-400 bbl uprights f/ Drlg out, Haul in 1 load and Transfer consolidated 2% ckl water to Pump tanks, Load out 1 load flow back, Assist Halliburton moving sand from Sand Master
Ops Shdn til AM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Completion Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Enclosed is the Weekly Completion Activity Report from 11/22/08 to 11/30/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature

Date 12/1/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

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DEC 08 2008

DIV. OF OIL, GAS & MINING

- 11/22/2008 Safety Meeting, Review JSA
Sicp= 400 psi bleed off, Tih EOT at 5729' Kbm 183 total jts in, Break Circ, Pump w/ Graco Foam Air unit only pumping 3 gals/ min fluid to Produce foam w/ good returns, TBR from Frac= 800 Kill Tbg w/ 10 bbl, TOH w/ 50 jts, Wellhead and Flow Back Plugged w/ heavy oil Weel building Psi, Flow Back crew and Rig crew break and clear lines and Wellhead
- 11/23/2008 Safety Meeting, Review JSA
Sicp= 425 blow down, TOH w/ Mill
RD P-Swivel, Tbg equip, Work floor, ND Annular BOP, RU Work floor and Tbg equip
MU Prod BHA: Tapped Bull plug, 2 Jts, 2 Perf Tbg Subs, Seat Nipple, 10 Jts, Stack out on Solidified Oil, Could not work thru, POH w/ BHA, Hot Oil Csg in am
WSI Til AM
- 11/24/2008 Safety Meeting, Review JSAs

Spot in and RU Action Hot Oiler, Pump 110 bbl 170* 2% Kcl water down CSG to Clear obstruction 149 Jts, Land Tbg Hanger in 15,000# tension, MU 7"- 5K- 2 7/8" Flange, MU Pumping T assm w/ pumping unit plate in place
Rih w/ Pump and Rods as follows, Dip tube, Pump, 4 K-Bars, 157- 3/4 rods, 33- 7/8 rods, Swi Secure
OPS SHDN til AM
- 11/25/2008 Safety Meeting, Review JSA

Cont RIH w/ 7/8" rods, total rods= 4- K Bars, 157- 3/4, 69- 7/8" Guided rods, Space out w/ 1- 10', 1- 4' sub, MU 26' Polish rod Seat Pump, Psi test to 500#, Stroke pump w/ Rig up to 1000# OK
RD R&S Service Rig, Spot in Opsco line heater and Western Petroleum 1000 gal Propane tank f/ Unit
RU Weatherford Hydraulic Pumping unit, Spot scrubber, Repair wiring on unit
Fire up unit and begin to pump fluid, TBR in 14 hrs= 66 bbl, Samples contain Water and Foam
- 11/26/2008 Safety Meeting, Review JSA, Avg B/H= 7.5, Bbl Recovered in 24 hrs= 103
- 11/27/2008 Safety Meeting, Review JSA, Avg B/H= 8.4, TBR in 24 hrs= 200.6
- 11/28/2008 Safety Meeting, Review JSA, Avg B/H= 8.9, TBR in 24 hrs= 213.4
- 11/29/2008 Safety Meeting, Avg B/H= 9.5, TBR in 24 hrs= 228.5, Maintain 400 psi on CSG, Fluid sample contains foam, Frac fluid w/ 50% C02
- 11/30/2008
Safety Meeting, Review JSA, Avg B/H= 9.4, TBR in 24 hrs= 218, C02= 35%, TBR from frac= 2,883

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Vantage Energy Uinta LLC

3a. Address

116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)

(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X

8. Well Name and No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON

10. Field and Pool or Exploratory Area
Wildcat

11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Completion Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Enclosed is the Weekly Completion Activity Report from 12/01/08 to 12/07/08.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature

Date 12/8/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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(Instructions on page 2)

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DEC 15 2008

DIV. OF OIL, GAS & MINING

12/1/2008 Safety Meeting, Review JSA,

Prod Testing as follows: Avg B/H= 8.9, TBR in 24 hrs= 214.1, Csg open to tank, C02 at 0500hrs= 36%, Avg pump strokes /min= 6, Total bbls left to recover from frac and all fluid loss= 2897

12/2/2008 Safety meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.0, Tbr in 24 hrs= 203, Csg open, C02 at 0500hrs= 34%

12/3/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.8, Tbr in 24 hrs= 210, Csg open, C02 at 0500hrs= 29%

12/4/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.7, Tbr in 24 hrs= 209.5, Csg open, C02 at 0500hrs= 27%

12/5/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.5, Tbr in 24 hrs= 204, Csg open, C02 at 0500hrs= 28%

12/6/2008 Safety Meeting, Review JSA

Production Testing, 24 hrs avg fluid prod= 9, Tbr in 24 hrs= 205, Csg open, C02 at 0500hrs= 28%

12/7/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 9, Tbr in 24 hrs= 214.1, Csg open, C02 at 0500hrs= 28%

CONFIDENTIAL

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
Vantage Energy Uinta LLC

3a. Address

116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)

(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X8. Well Name and No.
Nutters Canyon 1-29. API Well No.
43-013-3294210. Field and Pool or Exploratory Area
Wildcat4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Completion Activity</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Enclosed is the Weekly Completion Activity Report from 12/08/08 to 12/15/08.

Well completion activity suspended due to stipulations.

RECEIVED

DEC 22 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Mark Rothenberg

Title Senior Engineer

Signature



Date 12/16/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

- 12/8/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.9, Tbr in 24 hrs= 211.9, Csg open, C02 at 0500hrs= 26%
- 12/9/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 9.3, Tbr in 24 hrs= 223.1, Csg open to tank, Fluid samples contain Frac fluid, pH= 7, Sal= 2,900 ppm, TBR/ Pumped= 4781, Load to recover= 6,005 bbl
- 12/10/2008 Safety Meeting, Review JSA
Production Testing, 24 hrs avg fluid prod= 8.7, Tbr in 24 hrs= 208.3, Csg closed, f/ gas samples fluid, pH= 7, Sal= 2,900 ppm, TBR/ 4989
- 12/11/2008 Safety Meeting, Review JSA w/ all Personel
Production Testing, 24 hrs avg fluid prod= 8.8, Tbr in 24 hrs= 212.8, Csg closed, SICP= 150 psi, Obtain gas samples every 12 hrs, Fluid sample contain frac fluid w/ a trace of solids, PH= 7, Sal 2800 ppm, TBR 5,202
- 12/12/2008 Safety Meeting, Review JSA
Fluid Rovered last 24 hr= 203 bbl, Avg b/h= 8.5
Cum Fluid recovered= 5404 bbl, Total load to recover= 6005 bbl, Bbls left to recover= 601
Note: Csg on a 12/64 chk maintaining 10 psi in order to gather quality gas samples f/ lab testing at Precision
Obtain Gas and Fluid samples f/ Precision and Halliburton
- 12/13/2008 Safety Meeting, Review JSA
Prod Test, Total Fluid Recovered= 5220 bbl, Total Load to Recover= 6005 bbl
SHDN Weatherford Pumping unit at 0930 hrs, RU Hot oil unit and pump 4 bbl Diesel down Csg, Csg on Vacuum, RD and load out Pumping Unit, Bleed off Tbg Unseat pump, Pump 4 bbl Diesel Down Tbg, Reseat pump and clamp off, Install tapped bulplugs and needle valves in Csg and Tbg, RDMO Opsco Testing equip.

Haul out 3 loads Prod water, Heat and load out tank w/ oil on top from Foam job, Move out 2- 500 bbl flow back tanks
Ops Shdn til AM
- 12/14/2008 Safety Meeting, Review JSA
Move out Oil Tank and remaining Prod tank, Clean Loc
OPS SHDN til am
- 12/15/2008 Safety Meeting, Review JSA
RDMO Office Trailer, Gen and Deisel Tanks, Blade Location
Ops SHDN

RECEIVED**DEC 22 2008****DIV. OF OIL, GAS & MINING****CONFIDENTIAL**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER
1b. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator **Vantage Energy Uinta LLC** E-mail: mark.rothenberg@vantageenergy.com
Contact: Mark Rothenberg

3a. Address 116 Inverness Drive East, Suite 107
Englewood CO 80112 3b. Phone No. (include area code) 303-386-8600

4. Location of Well (Report location clearly and in accordance with any State Requirements.)
At surface 579' FNL 669' FWL NW /4 NW /4
Lat: 39.907675 Long: 110.422119
At proposed production zone ±660' FNL ±1,980' FWL (NE/4 NW/4) Sec. 2 T7S R5W

14. Distance in miles and direction from nearest town or post office. *
Location is ±17 miles south of Duchense, Utah.

15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drig, unit line, if any) Unit= N/A Lease= ±579'
16. No. of acres in lease 2,375.5

18. Distance from proposed location* to nearest well, drilling, completed or applied for, on this lease, ft. Antelope Canyon Federal 1 ± 81'
19. Proposed depth 6,229' MD; 6,067' TVD

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 8,556' GR
22. Approximate date work will start * August 15, 2008

5. Lease Serial No.
UTU78242

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.
Ashley Forest Federal Unit

8. Lease Name and Well No.
Nutters Canyon 1-2

9. API Well No.
43-013-32942

10. Field and Pool, or Exploratory
Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area
Sec. 2 T 7S R 5W
Meridian: U.S.B.&M.

12. County or parish Duchesne 13. State UT

17. Spacing Unit dedicated to this well
40

20. BLM/BIA Bond No. on file
UTB000288

23. Estimated duration
30-45 days drig + completion

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature *Mark Rothenberg* Name (Printed/Typed) Mark Rothenberg 303-386-6800 Date July 18, 2008
Title Senior Engineer for: Vantage Energy Uinta LLC

Approved by (Signature) *Jerry Kencels* Name (Printed/Typed) JERRY KENCELS Date SEP 03 2008
Title Assistant Field Manager Office VERNAL FIELD OFFICE
Lands & Mineral Resources

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

(continued on page 2)

*(Instructions on page 3)

NOS 7-308
AFMSS# 08PPO 913A

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
SEP 10 2008

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Vantage Energy Uinta LLC
Well No: Nutters Canyon 1-2
API No: 43-013-32942

Location: NWNW, Sec. 2, T7S, R5W
Lease No: UTU-78242
Agreement: Ashley Forest Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

See Attached Forest Service Surface Use Plan of Operations (SUPO) - Conditions of Approval.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- All 2M BOPE shall meet the requirements of Onshore Order #2, including the requirement for ram preventers to be one pipe ram and one blind ram. If 3M BOPE equipment is provided by the drilling contractor, the BOPE equipment shall be tested to 2M BOPE test requirements.
- The top of the production casing cement shall extend a minimum of 200 feet above the surface casing shoe.
- Test surface casing to the greater of .22 psi/ft casing length (77 psi) or 1500 psi.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 35' from the well bore.
- Automatic igniter or continuous pilot light on the blooie line. Variance granted to not have an igniter or continuous pilot light, only drilling to 350' and Uinta is usually not hydrocarbon bearing in this area.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressor located 50 feet from the well bore on the opposite side from the blooie line.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Vantage Energy

Well Name & Number: Nutters Canyon 1-2

Lease number: UTU-78242

Location: NWNW, Sec. 2, T 7S, R 5W

Surface Ownership: FS

Date: 27 August 2008

Date APD Received: July 24, 2008

NOS Received:

The following is a list of conditions of approval, for the proposed well noted above, which are being required by the Ashley National Forest. These conditions are in addition to those listed in the Surface Use Plan of Operations (SUPO) and APD that were submitted for the proposed well.

Paleontology

- A qualified Paleontologist will monitor construction activities for the proposed well pad and access road. If significant paleontological resources are discovered, construction activities would be halted and the USFS notified. Operations in the area of the discovery would not resume until authorization to proceed has been received from the USFS.

Vegetation Resources

- To reduce the spread/introduction of noxious and invasive weed species via project-related vehicles and equipment into the Project Area, Vantage and its contractors would power-wash all construction equipment and vehicles prior to the start of construction.
- During the construction phase of the project, Vantage will implement an intensive reclamation and weed control program after each segment of project completion. Vantage will reseed all portions of well pads and the ROW not utilized for the operational phase of the project, as well as any sites within the Project Area determined necessary by the USFS. Reseeding will be accomplished using native plant species indigenous to the Project Area. Post-construction seeding applications will continue until determined successful by the USFS. Weed control will be conducted through an Approved Pesticide Use and Weed Control Plan from the Authorized Officer. Weed monitoring and reclamation measures

will be continued on an annual basis (or as frequently as the Authorized Officer determines) throughout the 30 year life of the project.

Wildlife Protection

- Prior to any surface disturbing activity between April 30 and August 31, Vantage or their contractor, in coordination with a USFS Biologist, would survey all areas within 0.25 mile of proposed surface disturbance for the presence of raptor nests. If occupied/active raptor nests are found, construction would not occur during the critical nesting season for that species within the species-specific spatial buffer, unless the nest is obscured from visual or noise-related impacts through vegetative or topographic screening. USFS biologists would determine spatial buffers based on site-specific vegetative and topographic features within the vicinity of occupied nests.
- Well pad and road construction, roads upgrading, and drilling operations will not be conducted between November 15 and April 30, to protect elk winter range.

Access Roads

- Several areas of access roads have environmental resource concerns and will need to be covered with 4-6 inches of road based gravel prior to their use as access routes. Please contact the Forest Archaeologist, Jeffrey Rust (435.781.5156), to flag and show the location of these areas. No widening of the road or water drainage bars will be allowed in these areas.
- Construction or upgrading of roads would not be allowed during muddy or frozen conditions. Should mud holes develop, they would be filled in and detours around them are not allowed.
- Where road developments cross existing cattle fences, cattle guards will be installed and fences will be repaired to functioning condition.
- As needed, Vantage would apply water to utilized roads to reduce fugitive dust from vehicle traffic. If water application does not adequately reduce fugitive dust, the use of Magnesium Chloride (MgCl) would be considered.
- Road drainage crossings for new or upgraded roads will be designed so they do not cause siltation or accumulation of debris in the drainage crossing, and drainages will not be blocked by the roadbed.

Soils / Water / Floodplains / Wetlands

- Vegetation and/or structural measures to control erosion will be implemented as soon as possible after initial soil disturbance to prevent erosion of disturbed soils.
- Energy dissipaters such as straw bales and silt fences may be required to prevent excess erosion of soils from disturbed areas into adjacent surface waters or floodplains. These structures would be installed during construction, and would be left in place and maintained for the life of the project or until the disturbed slopes have revegetated and stabilized.

Reserve Pit or Closed Loop

- All pits containing materials that might be hazardous to wildlife would be covered with steel mesh screen or netting to prevent entry by migratory birds, bats, or other wildlife species.
 - The reserve pit would be lined with 20 mil synthetic reinforced material. The liner would overlay a felt liner pad which would protect the liner from punctures if rock is encountered during excavation.
 - Transport the cuttings off-site and off-Forest for disposal at an appropriate and approved disposal facility.
 - Bury the cuttings on-site, with at least 3 feet of cover materials, in a constructed pit within the cut portion of the well pad. While not optimal, this would effectively remove the cuttings materials from the surface, and from surface runoff, and minimize potential impacts to other surface resources. The disposal pit must be constructed within the cut (not fill) portion of the well pad to ensure the cuttings are not re-exposed at the surface during final well pad reclamation.
 - Return to using reserve pits, as described and analyzed in the original approval for your current drilling operations.
-

CONFIDENTIAL

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
UTU-78242

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
Vantage Energy Uinta LLC

3a. Address

116 Inverness Dr East #107, Englewood, CO 80112

3b. Phone No. (include area code)

(303) 386-8600

7. If Unit of CA/Agreement, Name and/or No.
Ashley Forest Federal Unit UTU-86335X8. Well Name and No.
Nutters Canyon 1-29. API Well No.
43-013-3294210. Field and Pool or Exploratory Area
Wildcat4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
579' FNL & 669' FWL (NWNW)
Sec 2-T7S-R5W 39.907675LAT 110.422119 LON11. Country or Parish, State
Duchesne County, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The referenced well is being temporarily abandoned until further assessments can be made to determine hydrocarbon potential.

Approved by the
Division of
Oil, Gas and MiningFederal Approval Of This
Action Is Necessary

COPY SENT TO OPERATOR

Date: 6.4.2009

Initials: KS

14. I hereby certify that the foregoing is true and correct. Name (Printed Typed)

Mark Rothenberg

Title Senior Engineer

Signature

Date 5/28/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED

(Instructions on page 2)

JUN 01 2009

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**CONFIDENTIAL**FORM APPROVED
BUREAU OF LAND MANAGEMENT
B.L.M. Form 3160-4-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. UTU-78242							
b. Type of Completion: <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other _____		6. If Indian, Allottee or Tribe Name							
2. Name of Operator Vantage Energy Uinta LLC		7. Unit or CA Agreement Name and No. Ashley Forest UTU-86335X							
3. Address 116 Inverness Dr. East #107, Englewood, CO 80112		8. Lease Name and Well No. Nutters Canyon 1-2							
3a. Phone No. (include area code) 303-386-8600		9. AFI Well No. 43-013-32942							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 579' FNL & 669' FWL (NWNW) At top prod. interval reported below 653' FNL & 1602' FWL (NENW) At total depth 682' FNL & 1949' FWL (NENW) <i>per HSM review</i>		10. Field and Pool, or Exploratory Wildcat							
14. Date Spudded 09/19/2008		15. Date T.D. Reached 10/19/2008							
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* G.L. = 8566 K.B. = 8580							
18. Total Depth: MD 6275' TVD 6117'		19. Plug Back T.D.: MD 6129' TVD 5975'							
20. Depth Bridge Plug Set: MD TVD		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Induction, Compensated Neutron, Compensated Z-Densilog, Gamma Ray									
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8K55	24#	0	365		260 G	20	Surface	
7-7/8"	5-1/2J55	17#	0	6224		570 PL II	144	Surface	
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2-7/8"	5850'								
25. Producing Intervals				26. Perforation Record					
Formation		Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status	
A) Black Shale		4718	5060	5562-5712		.35	44	OPEN	
B) Castle Peak		5060	5559	5381-5523		.35	20	OPEN	
C) Uteland Butte		5559	5739	4986-5110		.35	36	OPEN	
D) WSTL				4752-4912		.35	20	OPEN	
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval		Amount and Type of Material							
5562-5712		541 BBL Pure Gel 3LT w/ 70Q CO ₂ ; 112,000 lbs. 16/30 sand							
5381-5523		302 BBL Pure Gel 3LT w/ 70Q CO ₂ ; 49,700 lbs. 16/30 sand							
4986-5110		3,664 BBL Slickwater FR-56; 85,000 lbs. 16/30 sand							
4752-4912		436 BBL Pure Gel 3LT w/ 70Q CO ₂ ; 50,000 lbs. 16/30 sand							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/15/2008	11/15/2008	24	→	0	0	200			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→	0	0	200		TA	
28a. Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				Green River	1314
				Mahogany	2374
				Douglas Creek	4117
				Black Shale	4718
				Castle Peak	5060
				Uteland Butte	5559
				Wasatch	5731

32. Additional remarks (include plugging procedure):

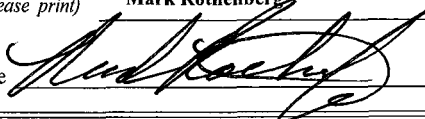
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) **Mark Rothenberg**Title **Senior Engineer**

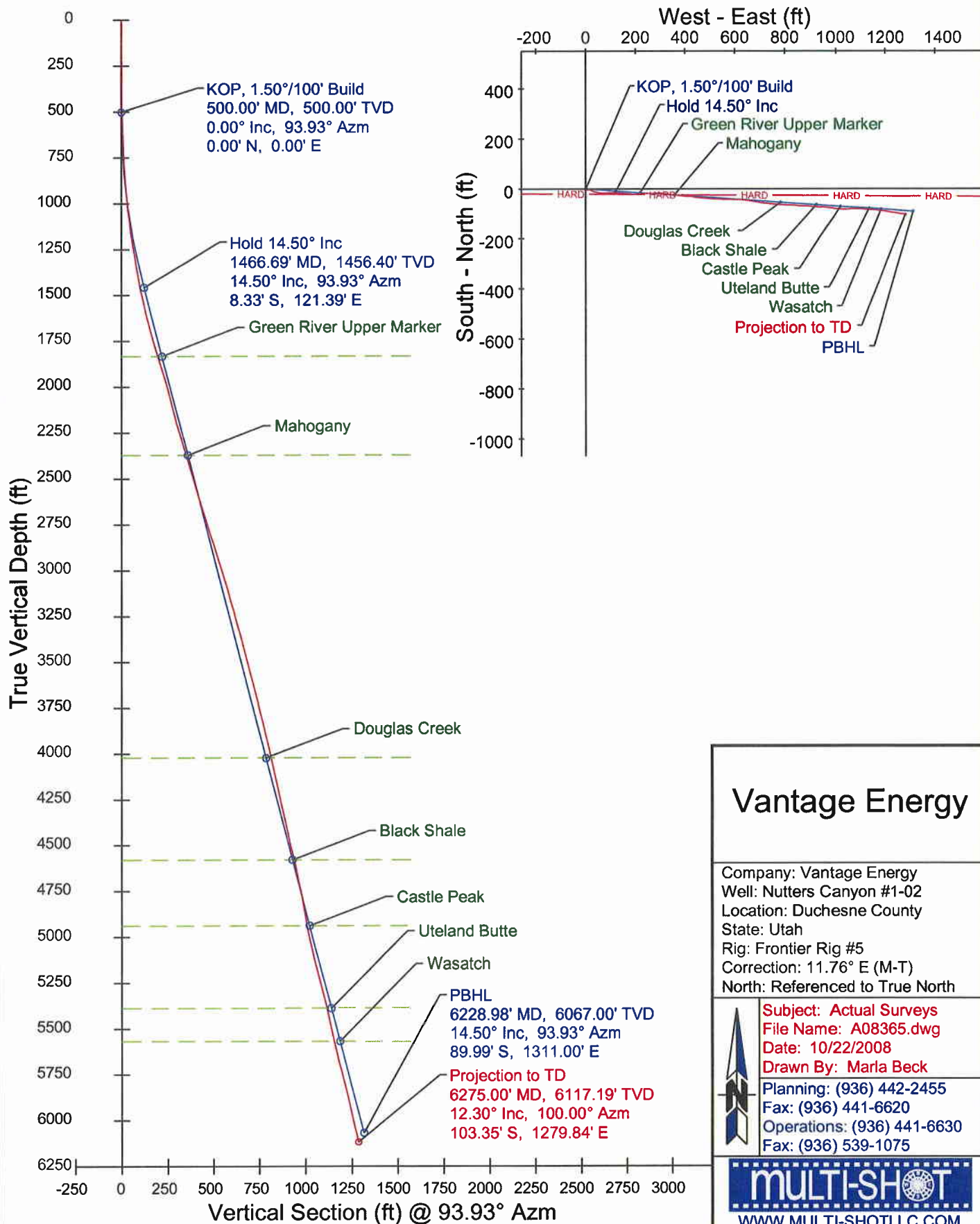
Signature



Date

5/28/09

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.



Job Number: P08-365
 Company: Vantage Energy
 Lease/Well: Nutters Canyon #1-02
 Location: Duchesne County
 Rig Name: Frontier Rig #5
 RKB: 12'
 G.L. or M.S.L.: 8556'

State/Country: Utah
 Declination: 11.76° E (M-T)
 Grid: Referenced to True North
 File name: F:\WELLPL~1\2008\P08360\S\IP08365\08365.SVY
 Date/Time: 22-Oct-08 / 15:43
 Curve Name: Prop Rev 0

WINSERVE PROPOSAL REPORT
 Minimum Curvature Method
 Vertical Section Plane 93.93
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
KOP, 1.50°/100' Build									
500.00	.00	93.93	500.00	.00	.00	.00	.00	.00	.00
600.00	1.50	93.93	599.99	-.09	1.31	1.31	1.31	93.93	1.50
700.00	3.00	93.93	699.91	-.36	5.22	5.23	5.23	93.93	1.50
800.00	4.50	93.93	799.69	-.81	11.75	11.77	11.77	93.93	1.50
900.00	6.00	93.93	899.27	-1.43	20.88	20.92	20.92	93.93	1.50
1000.00	7.50	93.93	998.57	-2.24	32.60	32.68	32.68	93.93	1.50
1100.00	9.00	93.93	1097.54	-3.22	46.92	47.03	47.03	93.93	1.50
1200.00	10.50	93.93	1196.09	-4.38	63.81	63.96	63.96	93.93	1.50
1300.00	12.00	93.93	1294.16	-5.72	83.27	83.47	83.47	93.93	1.50
1400.00	13.50	93.93	1391.70	-7.23	105.29	105.54	105.54	93.93	1.50
Hold 14.50° Inc									
1466.69	14.50	93.93	1456.40	-8.33	121.39	121.67	121.67	93.93	1.50
Green River Upper Marker									
1854.64	14.50	93.93	1832.00	-14.98	218.30	218.81	218.81	93.93	.00
Mahogany									
2410.35	14.50	93.93	2370.00	-24.51	357.11	357.95	357.95	93.93	.00
Douglas Creek									
4116.70	14.50	93.93	4022.00	-53.77	783.36	785.20	785.20	93.93	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Black Shale									
4690.99	14.50	93.93	4578.00	-63.62	926.81	928.99	928.99	93.93	.00
Castle Peak									
5061.80	14.50	93.93	4937.00	-69.98	1019.44	1021.84	1021.84	93.93	.00
Uteland Butte									
5526.61	14.50	93.93	5387.00	-77.95	1135.55	1138.22	1138.22	93.93	.00
Wasatch									
5712.53	14.50	93.93	5567.00	-81.13	1181.99	1184.77	1184.77	93.93	.00
PBHL									
6228.98	14.50	93.93	6067.00	-89.99	1311.00	1314.09	1314.09	93.93	.00



Job Number: P08-365

Company: Vantage Energy

Lease/Well: Nutters Canyon #1-02

Location: Duchesne County

Rig Name: Frontier Rig #5

RKB: 12'

G.L. or M.S.L.: 8556'

State/Country: Utah

Declination: 11.76° E (M-T)

Grid: Referenced to True North

File name: F:\WELLPL~1\2008\IP08360\SIP08365\08365.SVY

Date/Time: 22-Oct-08 / 15:11

Curve Name: SDTRK #00

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 93.93
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
418.00	.40	114.30	418.00	-.60	1.33	1.37	1.46	114.30	.10
479.00	1.10	121.80	478.99	-1.00	2.02	2.09	2.25	116.24	1.16
541.00	2.20	115.30	540.96	-1.82	3.60	3.72	4.04	116.78	1.80
602.00	2.20	125.00	601.92	-2.99	5.62	5.81	6.37	118.02	.61
663.00	2.20	107.90	662.88	-4.02	7.69	7.95	8.68	117.60	1.07
724.00	2.90	84.40	723.82	-4.23	10.34	10.61	11.18	112.25	2.04
785.00	3.50	92.80	784.72	-4.17	13.74	13.99	14.36	106.89	1.25
846.00	4.00	101.30	845.59	-4.68	17.69	17.96	18.29	104.82	1.22
907.00	4.60	108.00	906.42	-5.85	22.10	22.45	22.86	104.83	1.28
971.00	5.80	108.10	970.15	-7.65	27.61	28.07	28.65	105.49	1.88
1033.00	6.70	111.00	1031.79	-9.92	33.97	34.57	35.39	106.28	1.54
1096.00	7.30	105.80	1094.32	-12.33	41.25	42.00	43.05	106.64	1.38
1158.00	8.50	99.60	1155.73	-14.16	49.56	50.41	51.54	105.95	2.37
1221.00	8.80	97.80	1218.01	-15.59	58.92	59.85	60.95	104.82	.64
1284.00	9.40	93.50	1280.22	-16.56	68.83	69.81	70.80	103.53	1.44
1347.00	10.00	87.00	1342.32	-16.59	79.43	80.38	81.15	101.80	1.98
1411.00	10.30	90.30	1405.32	-16.33	90.70	91.61	92.16	100.21	1.02
1474.00	10.90	88.40	1467.24	-16.19	102.29	103.16	103.56	99.00	1.10
1536.00	11.60	88.00	1528.05	-15.81	114.38	115.19	115.47	97.87	1.14
1600.00	13.50	92.40	1590.52	-15.90	128.27	129.06	129.26	97.07	3.32
1663.00	15.50	95.40	1651.51	-17.00	144.00	144.83	145.00	96.73	3.39
1725.00	16.10	96.10	1711.17	-18.69	160.80	161.70	161.88	96.63	1.02

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1788.00	15.20	96.80	1771.83	-20.60	177.69	178.68	178.88	96.61	1.46
1851.00	16.80	90.20	1832.40	-21.61	195.00	196.02	196.19	96.32	3.84
1914.00	18.10	84.80	1892.50	-20.75	213.85	214.77	214.85	95.54	3.29
1977.00	16.40	88.10	1952.67	-19.57	232.48	233.28	233.31	94.81	3.11
2041.00	15.10	88.80	2014.26	-19.10	249.85	250.57	250.58	94.37	2.05
2103.00	13.90	86.00	2074.29	-18.41	265.35	265.99	265.99	93.97	2.24
2167.00	14.90	88.00	2136.27	-17.59	281.25	281.79	281.79	93.58	1.74
2230.00	15.30	93.30	2197.10	-17.78	297.64	298.16	298.17	93.42	2.28
2293.00	15.80	98.30	2257.80	-19.50	314.43	315.02	315.03	93.55	2.27
2357.00	17.10	96.80	2319.18	-21.87	332.39	333.11	333.11	93.76	2.14
2420.00	17.20	95.00	2379.38	-23.78	350.87	351.67	351.67	93.88	.86
2484.00	16.20	95.60	2440.68	-25.47	369.18	370.06	370.06	93.95	1.59
2547.00	16.50	98.40	2501.13	-27.64	386.78	387.76	387.76	94.09	1.34
2610.00	17.60	95.60	2561.36	-29.88	405.11	406.20	406.21	94.22	2.18
2673.00	17.40	94.50	2621.45	-31.54	423.98	425.14	425.15	94.25	.61
2736.00	17.30	96.40	2681.58	-33.33	442.68	443.92	443.93	94.31	.91
2799.00	18.00	96.60	2741.61	-35.49	461.66	463.00	463.02	94.40	1.12
2861.00	18.30	95.30	2800.53	-37.49	480.86	482.30	482.32	94.46	.81
2924.00	17.90	93.90	2860.41	-39.06	500.37	501.87	501.89	94.46	.94
2986.00	17.20	93.80	2919.53	-40.32	519.03	520.57	520.59	94.44	1.13
3050.00	16.70	90.90	2980.75	-41.09	537.66	539.21	539.23	94.37	1.53
3113.00	17.10	91.50	3041.03	-41.47	555.97	557.51	557.52	94.27	.69
3176.00	15.90	91.70	3101.43	-41.97	573.86	575.38	575.39	94.18	1.91
3238.00	15.00	92.00	3161.19	-42.50	590.37	591.89	591.89	94.12	1.46
3301.00	15.30	92.90	3222.00	-43.21	606.81	608.35	608.35	94.07	.61
3364.00	15.70	94.80	3282.71	-44.34	623.61	625.18	625.18	94.07	1.03
3428.00	15.60	96.30	3344.34	-46.01	640.79	642.44	642.44	94.11	.65
3491.00	15.30	97.80	3405.06	-48.07	657.45	659.20	659.20	94.18	.79
3555.00	15.00	97.80	3466.84	-50.34	674.02	675.88	675.90	94.27	.47
3618.00	14.30	98.70	3527.79	-52.62	689.79	691.77	691.79	94.36	1.17
3680.00	14.30	99.10	3587.87	-54.99	704.92	707.03	707.06	94.46	.16
3743.00	14.30	97.50	3648.91	-57.24	720.31	722.54	722.58	94.54	.63
3805.00	14.00	96.00	3709.03	-59.02	735.36	737.68	737.73	94.59	.76
3869.00	13.50	95.60	3771.20	-60.56	750.50	752.88	752.94	94.61	.80
3932.00	13.70	95.20	3832.43	-61.95	765.25	767.69	767.75	94.63	.35
3995.00	13.80	94.90	3893.63	-63.27	780.16	782.66	782.72	94.64	.19
4059.00	12.60	94.90	3955.93	-64.52	794.72	797.28	797.34	94.64	1.87
4121.00	12.40	92.70	4016.47	-65.41	808.11	810.69	810.75	94.63	.83
4185.00	12.90	91.60	4078.91	-65.93	822.11	824.70	824.75	94.59	.87
4248.00	13.20	92.50	4140.28	-66.44	836.33	838.92	838.97	94.54	.58
4311.00	12.70	94.00	4201.68	-67.24	850.43	853.03	853.08	94.52	.96
4375.00	12.40	95.60	4264.15	-68.40	864.28	866.94	866.98	94.53	.72

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
4438.00	12.70	93.10	4325.65	-69.44	877.93	880.62	880.67	94.52	.98
4500.00	12.00	89.10	4386.21	-69.70	891.18	893.86	893.90	94.47	1.78
4563.00	12.60	96.00	4447.77	-70.32	904.56	907.25	907.29	94.45	2.52
4627.00	13.10	97.50	4510.17	-72.00	918.70	921.47	921.51	94.48	.94
4690.00	13.40	93.90	4571.49	-73.42	933.06	935.90	935.94	94.50	1.39
4754.00	12.20	90.70	4633.90	-74.01	947.22	950.06	950.11	94.47	2.18
4816.00	10.90	97.30	4694.65	-74.84	959.58	962.46	962.50	94.46	2.99
4878.00	11.00	97.00	4755.52	-76.30	971.27	974.22	974.26	94.49	.19
4942.00	10.90	98.00	4818.35	-77.89	983.32	986.35	986.40	94.53	.34
5004.00	9.20	95.80	4879.40	-79.21	994.06	997.15	997.21	94.56	2.81
5066.00	9.80	93.70	4940.55	-80.05	1004.26	1007.38	1007.44	94.56	1.12
5130.00	12.70	94.30	5003.31	-80.93	1016.71	1019.87	1019.93	94.55	4.53
5193.00	13.40	91.20	5064.69	-81.60	1030.91	1034.08	1034.14	94.53	1.57
5255.00	13.80	89.30	5124.95	-81.66	1045.49	1048.63	1048.67	94.47	.97
5317.00	14.20	87.20	5185.11	-81.20	1060.48	1063.55	1063.58	94.38	1.04
5380.00	14.70	88.50	5246.11	-80.61	1076.19	1079.18	1079.20	94.28	.95
5444.00	14.20	91.70	5308.09	-80.63	1092.15	1095.11	1095.13	94.22	1.47
5506.00	13.10	94.00	5368.34	-81.35	1106.76	1109.74	1109.75	94.20	1.98
5568.00	12.00	96.60	5428.86	-82.58	1120.18	1123.20	1123.22	94.22	1.99
5631.00	12.30	94.10	5490.45	-83.81	1133.38	1136.45	1136.47	94.23	.96
5694.00	13.10	93.80	5551.90	-84.76	1147.19	1150.30	1150.32	94.23	1.27
5756.00	12.60	95.30	5612.35	-85.85	1160.94	1164.09	1164.11	94.23	.97
5819.00	14.30	96.00	5673.62	-87.30	1175.52	1178.74	1178.76	94.25	2.71
5882.00	14.60	97.70	5734.63	-89.18	1191.12	1194.44	1194.46	94.28	.82
5945.00	14.00	97.60	5795.68	-91.25	1206.55	1209.96	1209.99	94.32	.95
6008.00	13.70	98.20	5856.84	-93.32	1221.48	1225.01	1225.04	94.37	.53
6070.00	13.00	100.20	5917.17	-95.60	1235.62	1239.26	1239.31	94.42	1.35
6134.00	12.80	100.10	5979.55	-98.12	1249.68	1253.47	1253.53	94.49	.31
6196.00	12.70	99.40	6040.02	-100.44	1263.16	1267.08	1267.15	94.55	.30
6225.00	12.30	100.00	6068.34	-101.50	1269.35	1273.32	1273.40	94.57	1.45

Projection to TD

6275.00	12.30	100.00	6117.19	-103.35	1279.84	1283.92	1284.01	94.62	.00
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